

Perez POPS POS

Saturday, April 30, 2022 11:01 PM

affiliate@creality3d.shop

From <<https://creality3d.shop/pages/affiliate-program>>

Milton Overton (Director of Athletics)

Moverton@kennesaw.edu

Tuesday, May 3, 2022 3:29 PM

It was wonderful to meet with you at the Senior Design Exposition Tuesday. As discussed, attached below is our Sponsorship Packet. We would love to meet with you at a later date and discuss this further.

Solvay (Bryan Benson) Bryan.Benson@solvay.com

Tuesday, May 3, 2022 3:37 PM

It was wonderful to meet with you at the Senior Design Exposition Tuesday. 6

New Member Recruitment - 2022

Wednesday, July 27, 2022 8:05 PM

New Member Classes



Business
Class 2022

Misc.

- Rules test

Follow up After Team Recruitment Meeting

Hey! Thank you for showing interest in the business side of KSU Motorsports. I'm absolutely stoked to have you on the team! To help me help you plug in, please let me know what (if any) previous experience you have in business-related things and how you see yourself engaging in our business team.

I will also be hosting a class covering the business team's goals and roles. This class will be held on two different days: Friday, September 9th at 7:00PM and Monday, September 19th at 7:00PM.

Business Class Reminder

Hey! We're having a business class for the KSU Motorsports team tomorrow at 7pm and Monday the 19th at 7pm. Hope to see you at one of them!

Items to take over

Outreach

- Society of Women in Engineering
- KSU campus marketing group

- Event Coordination – on campus industry Speakers coming in (SAE) Oct. 21st
 - Directional flyers for off-campus guests and speakers
 - Marketing flyers
- Event Coordination – Alumni Board Presentation
 - Cost presentation for approval
- SABAC meeting
 - Cost presentation for approval
- Marketing Internal
 - Re-design board in hallway across from workshop
 - Tablecloth for events box
- Comp Presentations
 - Cost and statics presentation basics with John
 - Slide show and notebook aesthetics
 - Meetings with Sarah and SAE Int'l
- Sponsor Relationship Management
 - Board Teams w list of sponsors & gifts
 - Formal sponsor event – sales pitch and semester goals
 - Sponsor newsletters
- Social Media Manager & Photography
 - Develop timed posts
 - Newsletters – successes & events

Sponsor Relationship Management

Tuesday, October 11, 2022 6:17 PM

Sponsor Engagement Ideas

- List of past sponsors
- Research other local companies (non-engineering) to sponsor
- Survey & panel
 - How did you find us
 - What do you care about
 - Would you be interested in attending an event?
 - How can we better engage you in the team?
- Invite to Invitational
- Go to them (their events or at their facilities)

Action Items

1. Pull out list of sponsors; categorize and update list (Marco)
 - a. Meeting with money guy – gather data from (John)
 - b. Siemens reach out (Marco)
 - c. Engagement email recapping Barnesville (Sam)
2. Develop engagement survey for sponsors (Brittanie)

Meetings with faculty and sponsors

- Show off car(s)
- Present goals
- Sponsor meeting December 5th week (?)
- Give practice presentation to school development
- Faculty meeting mid-January (?)
 - Reach out to Dean about the faculty meeting

More Items for Discussion

- Photography
Videography (Alex was a film major)
Brand Development
Leverage SAE Chapter Network
Alumni special edition merch raffle

Developing Marketing Strategy

Meeting with George Ayres

The KSU Motorsports business team is creating a marketing strategy focused on sponsor relationship development. This is a new element for the team, which has prioritized technical team development in the past. We have experienced many recent successes with both of our vehicles in competition and are now seeking to develop the business side to the same degree of excellence.

Basics of a Marketing Plan

<https://www.forbes.com/sites/rhettbutler/2021/01/12/five-essential-elements-of-a-marketing-plan-for-a-small-businesses/?sh=7f973895259c>

<https://www.inc.com/theupstore/seven-essential-components-to-a-marketing-plan.html>

EXHIBIT 1.10 Contents of a Marketing Plan

Section	Content
I. Executive summary	Presents a short overview of the issues, objectives, strategy, and actions incorporated in the plan and their expected outcomes for quick management review.
II. Current situation and trends	Summarizes relevant background information on the market, competition and the macroenvironment, and trends therein, including size and growth rates for the overall market and key segments.
III. Performance review (for an existing product or service only)	Examines the past performance of the product and the elements of its marketing program (e.g., distribution, promotions, etc.).
IV. Key issues	Identifies the main opportunities and threats to the product that the plan must deal with in the coming year and the relative strengths and weaknesses of the product and business unit that must be taken into account in facing those issues.
V. Objectives	Specifies the goals to be accomplished in terms of sales volume, market share, and profit.
VI. Marketing strategy	Summarizes the overall strategic approach that will be used to meet the plan's objectives.
VII. Action plans	This is the most critical section of the annual plan for helping to ensure effective implementation and coordination of activities across functional departments. It specifies <ul style="list-style-type: none">• The target market to be pursued.• What specific actions are to be taken with respect to each of the 4 Ps.• Who is responsible for each action.• When the action will be engaged in.• How much will be budgeted for each action.
VIII. Projected profit-and-loss statement	Presents the expected financial payoff from the plan.
IX. Controls	Discusses how the plan's progress will be monitored; may present contingency plans to be used if performance falls below expectations or the situation changes.
X. Contingency plans	Describes actions to be taken if specific threats or opportunities materialize during the planning period.

Syltech Sponsor Email

Good morning,

My name is Steven Tubbs, and I am reaching out on behalf of Kennesaw Motorsports. We are a Collegiate Formula SAE team from Kennesaw, Georgia, USA. We have been looking for a new suite of sensors to use on our Internal Combustion (IC) car and came across your sensor lineup. The native use of DTM connectors on your sensors stood out, as we currently utilize the Deutsch lineup to construct the wiring harness for our cars. Having the connector built directly into the sensor housing would allow us to simplify our wiring and decrease the number of failure points in our system. Other combination sensors are sold on the market, but none complement our needs better than yours. We would love to partner with you and bring light to your lineup in our competition series and across the United States. Let me know if we can work something out!

Sincerely,
Steven Tubbs

Ayres Notes:

- Include percentile of teams performance, put our performance in context
- Elaborate more into the “impression” of the exposure the sponsor would get from sponsoring our team
- Overall provide more material to our sponsors and more in depth analysis and context as to what they are getting with our money
- “Car and a bunch of students” as to platinum level
- “Decal preview on the shirt” titanium level
- Become very local into what sponsors we reach out

SMART Goals

<https://corporatefinanceinstitute.com/resources/knowledge/other/smart-goal/>

Connect through SAE chapter network

1. Marketing Plan & Strategy
 - a. Meeting with George Ayres Nov. 10th 4:30pm
2. Start Invitational Planning
3. Sponsor Stuff
4. Branding Stuff
 - a. Merch
 - b. Flyers
 - c. Banners/Tables/Bullet Boards
 - d. Website
 - e. Social Media

FSAE Teams List

Friday, July 8, 2022 8:09 PM

Full List: <https://www.formulastudent.de/teams/fsc/#c-United%20States>

United States Teams

Akron	The University of Akron	Zips Racing
Ann Arbor	University of Michigan - Ann Arbor	MRacing
Arlington	University of Texas at Arlington	UTA Racing
Atlanta	Georgia Institute of Technology	GT Motorsports
Auburn	Auburn University	War Eagle Motorsports
Austin	University of Texas at Austin	Longhorn Racing
Baton Rouge	Louisiana State University	TigerRacing
Bellingham	Western Washington University	Western Washington University Formula SAE
Cincinnati	University of Cincinnati	Bearcat Motorsports
Columbia	University of Missouri	Mizzou Racing
Columbus	The Ohio State University	Formula Buckeyes
Corvallis	Oregon State University	Global Formula Racing (US)
Dearborn	The University of Michigan-Dearborn	The University of Michigan Dearborn Formula SAE
Denver	Regis University	Regis Uni FS Team
East Lansing	Michigan State University	Michigan State University Formula Racing Team
Fullerton	California State University, Fullerton	Titan Racing Formula
Gainesville	University of Florida	GatorMotorsports
Ithaca	Cornell University	Cornell University
Lawrence	University of Kansas	Jayhawk Motorsports
Madison	University of Wisconsin-Madison	University of Wisconsin-Madison Formula SAE
Mankato	Minnesota State University, Mankato	MNSU Motorsports
Mobile	Spring Hill College	SpringHill FS
Norman	University of Oklahoma	Sooner Racing Team
Northridge	California State University, Northridge	Matador Motorsports
Orem	Utah Valley University	UVU Racing
Orlando	University of Central Florida	Knight's Racing
Philadelphia	Drexel University	Drexel Racing
Pittsburgh	University of Pittsburgh	Panther Racing
Platteville	University of Wisconsin-Platteville	Pioneer Racing
Pomona	California State Polytechnic University, Pomona	Cal Poly Pomona Formula SAE

Rochester	Rochester Institute of Technology	Rochester Institute of Technology
Rochester	Oakland University	Oakland University Formula SAE
Rolla	Missouri University of Science and Technology	Missouri Science and Technology Racing
San José	San José State University	Spartan Racing
Seattle	University of Washington	UWashington Formula Motorsports
Southfield	Lawrence Technological University	Blue Devil Motorsports
Tampa	University of South Florida	University of South Florida
Troy	Hudson Valley Community College	Loki Motorsports
University Park	Pennsylvania State University	Penn State Formula Racing
Urbana	University of Illinois at Urbana-Champaign	Illini Motorsport
West Lafayette	Purdue University - West Lafayette	Purdue FSAE

Shirt Ideas

Tuesday, August 9, 2022 12:17 PM

Fronts



Front: Full
[Change Product Side](#)

Backs



Back: Full
[Change Product Side](#)



Front: Full



Back: Full
[Change Product Side](#)





Back: Full

[Change Product Side](#)

Southern Invitational 2023

Tuesday, June 28, 2022 4:40 PM

Event Overview: Spring event for teams in the Southeast running acceleration, auto-X, skid Pad, and endurance

Ideas:

- Take event off-campus
 - Captain M. D. Hurst Academy Director Cobb County Public Safety Police Training Academy 2435 Rast-West Connector Austell, GA. 30106 Ph: **770-499-4100**
- 2-day event? Day1 for statics and dynamic events, and SAE lectures/panels (?) Day2 for running cars
 - Where teams could stay (reserve gym and everyone bring a sleeping bag?)
 - Trailer parking (reserve a parking lot)
 - Food?
 - SAE folk accommodations?
 - Sponsor needs? Admission fee?
- Use school parking lot by gym?
- Google forms for signups
- Market to business students on Kennesaw campus?
- Have water barriers (16)
- Schedule lunch breaks specifically for volunteers (also designate shifts)

Questions:

- What is the event budget?
 - \$2000
- **What do sponsors need?**
 - IDK
- **How do we communicate with sponsors and participants? List of contacts?**
 - Will find sponsor ship
- **What is the average attendance count (including spectators and sponsors)?**
 - 5 teams (30 members) 5*30=150
- Do we have a website?
 - <https://www.ksumotorsports.com/invitational>
 - Goal: <https://www.pittsburghshootout.com/>
- What goes into a tech sheet? Egress sheet? Driver wristband?
 - FSAE tech sheet
 - Post on sight modified tech sheet.
 - Keep record of drivers
- Need to discuss anything with the dean for using school grounds?
 - No just events dpt
- **Do we have access to mic and speaker system?**
 - no
- Allow time for track walk? Provide track map for endurance ahead of time/post somewhere day of?
 - People would like it to be posted ahead
 - Need 15 for track walk
- What information do we typically ask at signup?
 - Team, type of car, estimated number of people, sign the waiver
- **Where does waiver come from?**
- Do the participating teams need to designate event drivers?
 - NO or yes
 - We grade by runs

Marland in parking

Planning Milestones:

January

1. Reach out to offsite options for event
2. Create invite list & reach out to teams to gauge interest
3. Create general budget
4. Gather cost estimates & rough participant numbers
5. Submit SABAC proposal (Stephen going talk with John about it)
6. Meet with Safety Officer (on campus requirement if cars running on campus)
7. Reach out to Manager of Student Centers/Student Affairs and begin processing forms through the school

February

1. Choose which events to run & general track layouts for each
2. Create day-of schedule
3. Designate areas to mark off as needed
4. Create Save the Date & send to both sponsors and participants
 - a. Determine scoring criteria & document tech inspection standards; send to teams
5. Dry-run track layouts if possible
6. Create sign-up & send out official invitations (to both sponsors and participants)
7. Create list of day-of roles & assign to teammates & schedule lunch breaks & schedule shifts
 - a. Tech Inspectors
 - b. Track Crew
 - c. Parking Guides
 - d. Setup/Takedown/Track Change
 - e. Waiver/Admission Fee Table
 - f. Food Director
 - g. Sponsor Director

March

1. Have teams & sponsors confirm attendance
 - a. Confirm estimated attendance to facility and food vendor as appropriate
2. Design & create trophies
3. Ensure we have a way to post results & announce each event
4. Event details packet to sponsors & participants
5. Document spectator instructions & share with teams

April 15th

1. Gather & consolidate items for setup/takedown
2. Create list of key points to be announced throughout event
3. Brief volunteer teams on roles and schedules

May

1. Post-event marketing
2. Event summary to school & sponsors

High Level Action Items:

- Budget
- Create event awareness, internal and external
- Plan event
- Set deadlines
- Provide directions and set expectations, internal and external
- Collect and organize data (make it up)

Action Items Drill Down

Budget

- Determine budget
- Determine event segments & allocate budget to each segment
- Obtain quotes from food vendors
 - Ensure that food vendor will provide all paper goods/plasticware

Create Awareness

- Invite participants and sponsors
 - Confirm teams attending 1 mo. (?) prior
 - Create means for teams to sign up
- Marketing plan
 - Pre-event
 - "Save the Date" event announcement (dates, location, general information) email blast, website, social media, paper flyers around campuses
 - Official invitations through email blast
 - Announce participating teams after confirming attendance
 - Post-event
 - Pictures from event - specifically pictures of winning overall teams, trophies, track, and sponsors (?)
 - Post results on webpage
 - Thank you emails to participants and sponsors
 - Acknowledgement of sponsor investments in event announcements, on webpage, and social media posts

Plan Event

- Create event day-of schedule
- Design and create trophies
- Designate areas for food vendor(s), trailer parking, general parking, tech inspection, and sponsor booths
 - Means to block off the different sections, especially paddocks and spectator viewing area
- Dry run track layouts for each event
- Determine best way to post results of each event
- Determine best way to announce events
- Reach out to offsite options for event
 - Confirm parking lot use with school if this does not come to fruition
- Determine key points that need to be announced throughout event
- Ensure we have:
 - Leaf blower?
 - Tables, chairs (KSU delivers...but usually incorrect quantity. Allow for time to adjust/request more.)
 - Coolers
 - First aid
 - Signage with directions to bathroom & to designate sponsor booths
 - Breakfast for setup team
 - Power strips (timing booth and speaker system)
- Spectator instructions (i.e., stay off the track)
- Water barriers for separating tracks if needed: <https://www.sunbeltrentals.com/equipment-rental/7000065/barrier-wall-water-filled/>

Provide Direction/Set Expectations

- Determine scoring criteria
- Document tech inspection standards
- Select & train tech inspectors
 - Create clipboards with checklist of inspection standards
- Select & train track crew
 - Designate locations for flag marshal stations and fire extinguishers
 - Review flags, track layout, order of events, and event details
- Select & train parking guides for paddocks and gen. parking
- Provide participants with...
 - Itinerary, tech sheets, and scoring criteria month (?) prior to event
 - Parking details/map, event track, other instructions, week (?) before event
 - Main contact number
- Review flags with drivers
- Setup and takedown teams
 - List of action items in chronological order
 - Map of overall event layout (parking and all)
 - Maps of event tracks
 - Designate place to return all items used in setup/takedown, especially if we're off-campus

Collect/Organize Data

Squad Tasks Brainstorm

Thursday, April 13, 2023 8:10 PM

Track1

- Flag Wavers (3)
- Hot Queue Guide (Will need one more person for AutoX) (1) (Pull from squad on break)
- Start Line (1)

Track 2

- Flag Wavers (3)
- Cone Caller/Stray Spectator (1)

Admin

Morning Time (Pre Event)

During Event

- Speak with Steven Each Rotation

Auto X

Track 1

- 3 Flag Wavers
- 1 Hot Queue
- 1 Start Line

Track 2

- 3 Flag Wavers
- 1 Cone Caller/Spectator Watch

Endurance

Track 1

- 2 Flag Waivers
- 1 Cone Caller
- 1 Buddy/Free Goon

Track 2

- 2 Flag Waivers
- 1 Hot Queue
- 1 Start Line

Acceleration

Track 1

- 1 Start Line
- 3 Goons

Track 2

- 1 Hot Queue
- 1 Corner Worker
- 2 Goons

Lead Meeting

Responsibilities

- Divide tasks to squad members, especially for autx/endurance
- Make sure there are no shenanigans, and people are safe
- Hot queue for each track event
 - You will order cars in the hot queues, communicate with sammy for clearance, and direct next team to the line
 - Heily can run thru

Speak with Steven when your squad members are free

Refer to these beautiful sheets I made for you (Excel Active Sheet)

zone. Fine penalty may be assessed.	Black Flag with Orange Dot. Pull into Driver Change Area for immediate inspection, or circle has been disconnected and reset.
Driver. Obey corner worker signals at end of passing zone.	
Zone is designated zone.	
Leave a gap until the vehicle, turn and avoid another.	
Take the side of the course as much as possible. Following the road markings.	
BE PREPARED TO STOP. Give to corner worker	
gated approach at a cautious rate.	
Be prepared for invasive action to avoid the situation.	

Misc. Information:

KSU Academic Calendar:
<https://registrar.kennesaw.edu/academic-calendars/fall-2022-academic-calendar.php>

High Level Action Items:

- Budget
- Create event awareness, internal and external
- Plan event
- Set deadlines
- Provide directions and set expectations, internal and external
- Collect and organize data (make it up)

General Questions:

Rename event to something more catchy?
Track alternatives: Charlotte, NC, All Motor Speedway; Lanier Oval; AMP; Jacksonville, FL;

Planning Milestones:**July**

1. Breakdown event segments for budget allocation (\$2,000)
 - a. Submit SABAC forms
2. Validate invite list & reach out to teams to gauge interest
3. Contact speedway & school about hosting
4. Choose which events to run & general track layouts for each
5. Design & create trophies (also do the ones for Invitational)
6. Create day-of schedule
7. Determine scoring criteria & document tech inspection standards
 - a. For Reference: <https://www.pittsburghshootout.com/handbook>

August

1. Dry-run track layouts if possible
 - a. \$40-50/driver at Speedway (?) to run practice laps on an off-schedule day
2. Confirm facility & plan how to mark off areas/direct people
3. Create the Save the Date & send to both sponsors and participants
 - a. Provide scoring criteria & document tech inspection standards
4. Create sign-up & send out official invitations (to both sponsors and participants)
5. Confirm budget amounts

September

1. Have teams confirm attendance
2. Ensure we have a way to post results & announce each event
3. Create list of day-of roles & assign to teammates
 - a. Tech Inspectors
 - b. Track Crew
 - c. Parking Guides
 - d. Setup/Takedown Teams

October**Event Date Oct. 14th, 15th**

1. Gather & consolidate items for setup/takedown
 2. Confirm estimated attendance to facility and food vendor as appropriate
 3. Document spectator instructions & share with teams
 4. Event details packet to sponsors & participants
 5. Create list of key points to be announced throughout event
- November**
1. Post-event marketing
 2. Event summary to school & sponsors

Action Items Drill Down**Budget**

- Budget: \$2,000 (?)
- Allocate budget to each event segment:
 - Setup/Breakdown
 - Large directional signage
 - Chalk for line markers
 - Food
 - Rental
 - Insurance
 - Facilities
 - Rental
 - Insurance
 - Travel (& Accommodations ?)

Create Awareness

- Invite participants
 - Confirm teams attending 1 month prior
 - Create means for teams to sign up
- Marketing plan
 - Pre-event
 - "Save the Date" event announcement email blast, website, social media
 - Event dates & location
 - Provide contact for questions
 - BOY/G - Bring Your Own Gim...erators
 - Official Invitations through email blast
 - Announce participating teams after confirming attendance
 - Post-event
 - Pictures from event - specifically pictures of winning overall teams, trophies, track, and sponsors (?)
 - Post results on webpage
 - Thank you emails to participants
 - Acknowledgement of sponsor investments in event announcements, on webpage, and social media posts

Plan Event

- Choose dates for event
- Reach out to Speedway
 - John visited 7/16
- Create event day-of schedule & choose which events to run
 - Events: auto-x all day
 - Driver practice runs
 - Design and create trophies
 - Plan areas for trailer parking, general parking, tech inspection, and camping
 - Choose track layout for each event
 - Determine best way to post results of each event
 - Determine best way to announce events
 - Reach out to offsite options for event
 - Confirm parking lot use with school if this does not come to fruition
 - Determine key points that need to be announced throughout event
- Ensure we have:
 - Leaf blower?
 - Tables, chairs (KSU delivers...but usually incorrect quantity. Allow for time to adjust/request more.)
 - Coolers
 - First aid
 - Signage with directions to bathroom & to designate sponsor booths
 - Breakfast for setup team
 - Power strips (timing booth and speaker system)
 - Seat belt cutters
 - Gloves
- Spectator instructions (i.e., stay off the track)
- Water barriers for separating tracks if needed: <https://www.sunbeltrental.com/equipment-rental/7000065/barrier-wall-water-filled/>

Provide Direction/Set Expectations

- Determine scoring criteria
- Document tech inspection standards
- Select & train tech inspectors
 - Create clipboards with checklist of inspection standards
- Select & train track crew
 - Designate locations for flag marshal stations and fire extinguishers
 - Review flags, track layout, order of events, and event details
- Select & train parking guides for paddocks and gen. parking
 - Provide participants with...
 - Itinerary, tech sheets, and scoring criteria month (?) prior to event
 - Parking details/map, event track, other instructions, week (?) before event
 - Main contact number
- Review flags with drivers
- Set up and takedown teams
 - List of action items in chronological order
 - Map of overall event layout (parking and all)
 - Maps of event tracks
 - Designate place to return all items used in setup/takedown, especially if we're off-campus

Collect/Organize Data**Teams to Invite:**

- GT Motorsports (GTMS)
 - Nick Slacanin Team Lead (nickslacanin@gatech.edu)
 - Brett Peloke Chief Engineer (bpeloke6@gatech.edu)
 - gtmss@gatech.edu
- Hy-tech (GA Tech, EV)
 - Ansor President (1 508-615-4978)
 - Marc Chief Engineer (646-745-4078)
 - info@hytechracing.org
- Mississippi State (IC)
 - Samuel 1 205-563-2256 (old contact)
 - Maisi 478-308-3289
- University of Georgia (IC)
 - Jackson 1 678-458-6756
 - Taze 1 678-761-1229 (business lead)
 - ugamotorsports@gmail.com
 - From website - Jole Hibler Team Leader (sethbibler98@gmail.com)
 - From website - Jake Lancaster Co-Captain (jakeofflancaster@gmail.com)
- Georgia Southern (EV, ?)
 - sae@georgiasouthern.edu
- University of Florida (Gainesville) - Gator Motorsports
 - <http://www.gatormotorsports.com/>
 - president@atormotorsports.com
 - uffsaee@mail.com
- University of Central Florida (Orlando)
 - https://knightracing.cecs.ucf.edu/?page_id=191
 - Knightracing@gmail.com
- University of South Florida (Tampa)
 - <https://www.bullsracing.com/team>
 - saeus@gmail.com
- University of Alabama (IC)
 - <http://www.alabamafsa.com/contact-us.html>
 - alabamafsa@gmail.com
- Auburn University (EV)
 - Sydney Walker Business Director (Email: sew0080@auburn.edu)
 - (334) 844-3368
- Clemson (IC)
 - Michael Cloer Team Lead & Chief Engineer (cufsaee@g.clemson.edu; (803)389-3022)
 - Toni Tabaku Financial & Logistics Officer (etabaku@g.clemson.edu)
 - <http://www.clemsonfsa.com/uc-contact-us>
 - cufsaee@clemson.edu
 - 864-656-1890
- Florida Atlantic
- UNC Charlotte
 - 49ersracing@gmail.com
- NC State
 - packmotorsportsfsae@gmail.com
- Duke
 - dukeuniversitymotorsports@gmail.com
- VATEch
 - sbenjamin19@vt.edu
- Tennessee Tech
 - mwdavis@tnTech.edu
- Middle Tennessee
 - kws2g@mtnl.mtsu.edu
- LSU
 - FormulasU@gmail.com

Team registration cost for Barnesville Shootout 2022. If you need an alternate method of payment, please reach out to us at barnesvilleshootout@gmail.com. Please do not forget that Pit Passes will need to be paid in cash upon arrival at the event.

Task Assignments

Thursday, August 18, 2022 9:36 PM

July		KSU Member	Notes
	Breakdown event segments for budget allocation	Brittanie & John	Ingnorantd
	Reach out to teams to gauge interest	Marco	He likes to talk to people, and is well spoken when required
	Contact speedway about hosting	Brittanie	bra
	Choose track layouts	Josh B & Mihi	Idk they drive, bray races this track all the time
	Design & create trophies (also do the ones for Invitational)	Ghram	Lol
	Create day-of schedule	Brittanie & John	People do not understand the detail required in this
	Determine scoring criteria	Josh Morrison	Numbers = Morrison
	Document tech inspection standards	Heily or Josh Morrison	Ecar- bailey & mathew. Ingnarious do normal
August			
	Dry-run track layouts if possible	Mihi & Heily	Yes for planing of getting car out there
	Confirm facility & plan how to mark off areas/direct people	Ghram	He do da maps
	Create Save the Date & send to both sponsors and participants	Steven	Lol its steven
	Provide scoring criteria & document tech inspection standards	John W/ Ingnarionus	yep
	Create sign-up & send out official invitations (to both sponsors	Steven	He communacate well

Set deadlines and meet up with partners by end of next week
Keep in mind major deadlines (bold and highlighted)

Hello from KSU and Clemson University,

As promised, below is the final details for the Barnesville Shootout 2022.

Tech Standards & Event Scoring

The tech inspection documents for IC and EV are attached. Green highlighted items will be checked with no compromise. Yellow highlighted items will be checked as the inspector deems necessary. For event scoring, the fastest timed lap wins.

Registration

The registration cost breakdown is below. After you register with the link below, a PayPal invoice will be sent to your team email. If an alternative payment method is required for your specific circumstances, please reach out to us. Pit Passes will be paid upon arrival.

To officially RSVP, [please fill out this form](#).

Team Registration: \$175 per team
Pit Pass: \$6 per attendee

Event Details & RSVP

Please see the attached daily itinerary.

Event Date: October 14th-15th
Location: Georgia Sprint Karting Association
Lamar County Speedway
964 GA-36, Barnesville, GA 30204

Final Notes

- Each attendee will need to sign a waiver upon arrival for the track's insurance purposes.
- Bring your own transponders, generators, and charge carts.
- Camping is allowed at the track. Please come prepared with your own supplies as needed.
- Bathrooms and showers are available for our use. Please remember to respect GSKA's property and facilities.

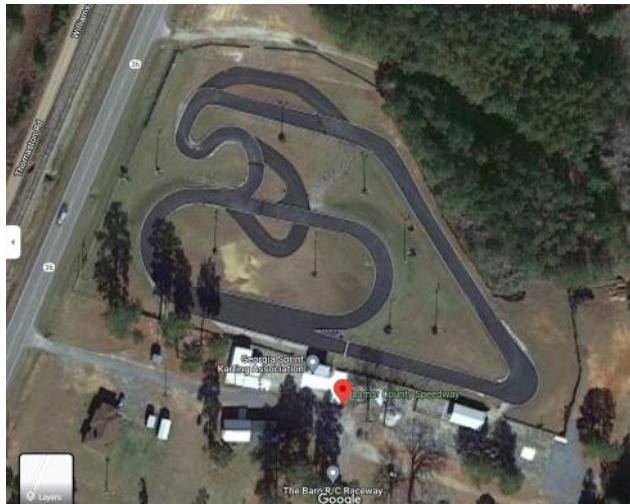
Sincerely,
KSU & Clemson University

	(and participants)		
	Confirm budget amounts	Steven	He knows this
September			
	Have teams confirm attendance	Brittanie	
	Ensure we have a way to post results & announce each event	Andrew	He do da social
	Create list of day-of roles & assign to teammates	Brittanie	bruv
	Tech Inspectors	John	bruv
	Track Crew	Cade & Graham	The can subress the acute lack of smart disison about track workers
	Parking Guides		
	Setup/Takedown Teams	Marco	He is good at direction
October	<i>Tentative Event Dates Oct. 15th or Nov. 5th</i>		
	Gather & consolidate items for setup/takedown		
	Confirm estimated attendance to facility and food vendor as appropriate	Brittanie	
	Document spectator instructions & share with teams	Josh & Andrew	They understand events enough and are good at listing it out
	Event details packet to sponsors & participants	Steven & Marco	They do the communacate well
	Create list of key points to be announced throughout		

	event		
November			
	Post-event marketing		
	Event summary to school & sponsors	Brittanie	I do not want to do this

Lamar County Speedway

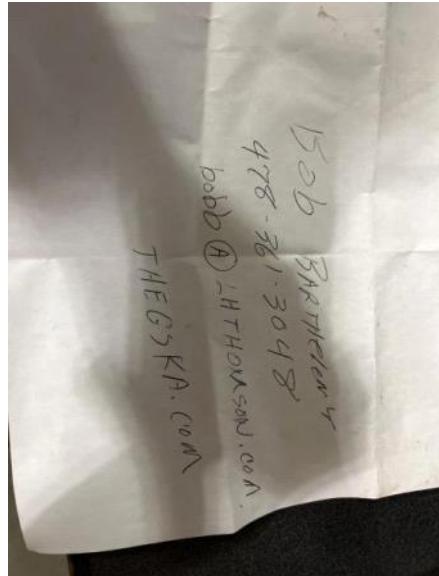
Thursday, July 21, 2022 12:29 PM



Lamar County Speedway

(678) 359-4222
964 GA-36, Barnesville, GA 30204

Bob Barthelemy
478-361-3048
bobb@lhthomson.com
thegska.com



Track Visit 7/16: John getting phone numbers for good contacts and pics of facility

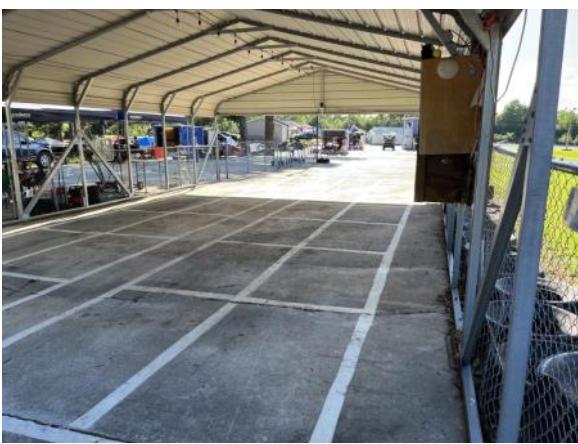
Questions:

- What is your racing schedule?
- What are track rental rates?
 - What would it cost to run events between races during the season?
 - Can we rent the whole track after the end of the season?
 - Is insurance required?
- Over what timeframe do we have access to the facilities?
 - Friday-Saturday preferred
- May have some electric cars running. Is there a covered area where we can charge these batteries if needed? (Teams will bring generators – but might need a backup plan.)
- Are there any barricades or markers available that we can use to "rope off" certain areas (spectators, paddocks, food vendors, sponsor booths, etc.)?
- Is the speedway ok with us posting pictures from the event on our website and social media?

Would like to send a follow up email to confirm discussed details.

Confirm: \$850 for the track for the day; \$1,200 if we want them to "do all" and rent transponders (don't need to use theirs)





Presidential Election

Wednesday, June 7, 2023 9:28 PM

Presidential Election Notes 2021-2022

Tuesday, July 06, 2021 9:22 PM

- CANDIDATES:
 - Bj
 - Sustainability
 - Comms
 - Keep FB messenger, create new subgroup chats and call old ones legacy
 - More focused comms w/ active only groups
 - Need mindset change
 - Retention
 - After comp mods
 - See new members do fun things, not necessarily comp legal
 - Scope
 - No more mfg time or eng time, only leading others in doing
 - Ecar
 - Concerns on knowledge base
 - Prioritize buying components before designing and making our own
 - More people recruited for ecar
 - \$
 - Not good idea to prioritize ecar, shouldn't delegate more than half of budget
 - Beat clemson
 - Infrastructure issues – shop organization, keep consistently clean shop
 - Reliability – Having backup was good, but should've redesigned intake or tracked down issue (for example)
 - Topdown reliability review
 - Why
 - Controversial things fall on your shoulders
 - Social media
 - Shop cleanliness, race-ready cars
 - Keeping car done, keep taking pics
 - Where we go
 - Look at avg times of other new EV teams to get through tech before deciding
 - Take what we have in August and ask if we can race in the summer
 - Replacement
 - Hoping for it to be more than just one
 - Replace mfg lead with a decentralized group
 - Work on physical training documentation/SOPs
 - Make docs that include what everyone should know
 - 2E before 6C
 - Can't assign priority on the fly
 - If we decide 2E is going to comp then it takes priority, but otherwise they need to run in parallel
 - Cost and business
 - Either way, getting cost done early is a good idea
 - Easy to lose parts with hasty cars, so be meticulous
 - Finish cost ahead of time
 - For business, need people focused on it
 - Put more time into it
 - VP
 - Somebody who complements personality and areas of weakness
 - Alumni
 - Alum events
 - Parties
 - Keep Messenger
 - Overload
 - Prioritize tasks, with communication being first priority
 - Individual followups first to go
 - Focus on team and subgroups to take what you can't handle
 - Challenge

Saybac
Game night
Reimbursements
RSO registration
School events
Manage bank & parypal
Room RSO meetings

- Time management
 - For team, expecting more effort out of everyone
 - Motivation
- Gokarts
 - Didn't like original scale of gokarts, would like to find project w/I budget that still benefits us if they leave
 - One or two, electric and use ecar components/logic
 - Mods to project car/raptor, advance with new people
 - Time cost of old project was too much, people that stuck around had jobs during and after
- Newbie retention
 - Filter new people, think we should look at resume and interviews, actual acceptance process
 - Shouldn't try and train new people
 - Filter out people worth our time
 - Have more focused group get focused projects
 - Don't try to make something easy
- Notebook
 - Leads good idea but the context of fsae doesn't require it the way govt contracts do
- Applications
 - Take resumes and applications, ask specific questions (staying more than a year, transferring to tech, etc) and interview them in groups
- Biggest issue
 - Shop organization and cleanliness
 - Lack of infrastructure for more people in shop
 - Lack of skilled members, attract by having presentable shop
- Legacy
 - Focus on sustainability
 - Make sure next president and next team is still viable

○ Cade

- Co-lead structure
- Comms
 - Not good comms transparency, need more structure
 - Platform doesn't matter, it's more an attitude
- Retention
 - Have scheduled work shifts and an actual schedule
 - Have active things for people to work on
 - Have basic projects for new people to work on
- Scope
 - Would prefer to not be both end and prez but would train people
- Ecar
 - Split in team is an issue, requires two different skillsets that need to be brought together
 - Member training
- \$
 - Fund depend on necessity
- Beat Clemson
 - More mock competition events
- Why
 - Don't want someone who will waste time
 - Running because those things need to be fixed
 - President defines priority
- Social
 - Post more
 - Progress pics/videos, should be able to see team progress through SM
 - Might be good for recruiting
 - Business lead or someone have a dedicated job
- Where we go (sae)
 - Decide in august, so we need to know before august what we actually do
 - Plan for it
- Replacement

- None available right now who isn't already busy
 - Co-lead structure, be facilitator for people working on E&D
 - Biggest knowledge gap is tuning
- 2E before 6C
 - Just because 2E is behind doesn't mean we should hold back 6C
 - 2E can't hold back combustion program
- Cost and business
 - Need actual business/logistics department
- VP
 - Keep track of shit
 - Dates and deadlines
- Alumni
 - Alumni days
 - Messenger DMs
 - Document what the alums actually did
- Overload
 - Look at what's on plate, find someone to take e&d lead or make punchlist and go MIA (worst scenario)
- Ordering/sourcing
 - Duty belongs to the engineer designing part
- Challenge
 - HR problems
- Gokarts
 - Good way to get people plugged in
- Newbie retention
 - Should go from karts to something else, need to have plan to keep them doing things
 - Implement more specific subgroup aspects into the training
 - Teach critical skills in-application from beginning
- Engineering notebook
 - Leads keep notebook for their subgroup, not everyone
- Applications
 - Need to thoroughly develop way of filtering without hard turning them away, because that eliminates people with potential
 - Have unfiltered application to see what interests there are, make a list of people suited to each subgroup and the lead could go and reach out individually to them
- Biggest issue
 - Car needs to be ready for comp no matter what
 - Keep car rules legal always
- Legacy
 - Dragged into it, but cared about the team

○ Garwacke

- Recruitment focus
- Comms
 - Things get lost in two separate comms platforms, should move entirely to one platform (teams)
 - Full move to Teams, but also Messenger is good for legacy comms and casual chat.
- Retention
 - Be nicer to new people, create less hostile environment
 - Keep up with people better, esp. Newbies
- Scope
 - Just a guy being a dude
 - Continue designing parts
- Ecar
 - Alternate ecar and combustion years, 2 year dev cycles for each car
- Beat Clemson
 - More legacy outreach

- Better documentation of previous practices and designs
 - Focus on knowledge transfer
- Why
 - Culture based change, but prez isn't needed for a lot of them
 - Things that come with the role best way to affect change
- Social media
 - Plenty of material exists, can use that
 - Hard to show design work early in the year, so instead we could show off newbie projects early on in the season
- Where we go
 - Ecar primacy
 - Two year development cycle, overlapped
 - Since C won't ever not be operable, then do both this year
- Replacement
 - Not needing to replace a sg leader
 - CAD workshops
- Cost and business
 - Get business team people
 - Ask old business leads, reconnect with alums
- VP
 - Complementary, business team
- Alumni comms
 - Alumni days
 - Kickoff
 - Ask about old problems
 - Slide into DMs
 - Email
- Overload
 - Just ask for help
 - Prevention vital
- Challenges
 - Business duties, responsibility of handling large funds
 - Would look at prior funds and practices
- Gokarts
 - Good project, got experience out of them
 - Gives freshmen something to do, smart to bring it back
- Newbie retention
 - In person meetings good, create friendly atmosphere
 - Freshman project(s)
 - Shouldn't expect to retain most of them
 - Easy projects, like manufacturing (cutting gokart frame tubes)
- Leads keeping notebook
 - Good idea, so that leads don't walk up with very little to say at Monday at the least
- Applications
 - Would advocate, if not for covid
 - Hurts momentum
 - Return to pre-covid direction, free process for a year before implementing a stricter process
 - Duplicate 2yr ago process (jordan's year)
- Biggest issue
 - Outreach is lacking
 - Kennesaw campus relationship poor
 - Business help
- Legacy
 -

○ Jake

- "Get our name out there"

- Broad business experience thru internships, general car knowledge
- Comms
 - Whatever works best for people, what comms meshes best
- Recruitment
 - Not micromanaging, each group runs their own planner tasks
 - More team workshops, classes, "internal outreach" - keep us doing things together
- Scope
 - Step down as data acq but only help out
- Ecar
 - Workshops
 - Ask shash wtf he needs, make decisions based on that
- \$
 - Subgroup lead budgetizing meetings
 - Project based funding instead of subgroup based
- Beat Clemson
 - Actually work with Clemson
- Why
 - Best way to change direction is to be the one at the steering wheel
- Social
 - Have people with specific social media responsibility
 - Too much for one person, needs to be group effort
- Where we go
 - Time and money constraint, if in theory we had resources to do everything we should go everywhere
 - Start year with project planning meetings, set timelines and etc
- Replacement
 - Avery did a good job
 - Hold workshops to train new people
 - Continue setting standards
- 2E before 6C
 - Iterchangability means consecutive construction not necessary
 - Not my call
 - Do in parallel
- Cost and business
 - Get familiar with process
 - Rebuild business
 - Practice, do presentation dry runs and rehearse
 - Try to bring in professors or industry to judge our presentation
- VP
 - Keep up with dates and deadlines
 - Prez focus more on non-engineering, VP should fit well as liaison role
- Alumni
 - Alumni days
 - Extend more invitations
 - Alum newsletter
- Overload
 - Expect VP to be able to help stay on task
 - Hope people would be willing to lend a hand
 - Keep comms, make sure people know where you are
- Challenge
 - ADHD
 - Forgetting things
- Gokarts
 - Great idea, doesn't have to be gokart
 - Could be geared toward our overall comp goals for that year
- Newbie retention
 - Spend more time on them, especially training
 - Last year we came up with whole plan and covid fucked us
 - Implement plan we came up with two years ago
- Engineering notebook
 - ◊ No
 - ◊ When we do tshirts, buy notebooks to give out

- ◊ Mandate meeting notes, like bullet points but not everyone
- Instead of notebook, have requirement of some form of documentation that best suits the lead individually
- Daily log, but format could wander
- Applications
 - Willing to filter, but don't want to hard turn people away
 - Go further than current method, people don't always show their potential though
 - Wouldn't ask for resumes, casual talk good
 - Make less restrictive as time goes on, filter the first big bulk first
- Biggest issue
 - Rules compliance
 - Having 5 as test platform will help
 - Resources an issue, money was a huge holdback
 - Awareness, both companies and students, is holding us back
 - Making up for lack of money is waste of time
- Legacy
 - Getting out of the slump

○ Nathan

- Retention
- De-cliqueify
- Comms
 - Issue – effort of communication/lack thereof, need easier comms
 - More effort of communication
 - Look at other platforms besides Facebook
- Retention
 - Leads reaching out to new people more, leads responsible for keeping up with people better
 - Leads ask for help from newbies more, it gets people in more
 - Get them actually doing things
- Scope
 - Keep up with school, sponsors, SAE docs, making sure submissions happen, put in time to do presidential stuff
 - Do composites simultaneously
- Ecar
 - A lot less people attending ecar design reviews currently
 - Find a way to move ecar duties into traditionally combustion teams, or perform hybrid meetings so people are on the same page
 - Rolling chassis very early, asap, make go faster
 - Do same thing with ks5 and raptor, 2 cars
- \$
 - ?
- Beat Clemson
 - Focus on getting through tech, to and through endurance
 - Testing time, engineering process
 - Give John the resources to do this
 - Resources! Get more shit and contacts
- Why
 - Prez role is getting integrated with community
 - Planning trickles down
- Social media improvements
 - Put stuff on there
 - Stories, pictures, all the time
- Where we go
 - If we knew last august there'd be LV and Michigan, we'd wanna not take E to LV
 - See if SAE knows their head from their ass first
 - Canada prob not
 - Take most prepared car to Michigan, because biggest stage
- Replacement
 - Nobody available rn, would be willing to continue composites work

- 2E before 6C
 - Shouldn't hold back 6C because of 2E
 - Only focusing on ecar would be wasting time, because some people wouldn't be able to contribute to 2E project
 - Since major components aren't fabricated yet, there's not a lot of things that everyone can do
- Cost and business
 - Bigger business team
- VP role
 - Assist in communications and paper pushing, order tracking, spending tracking, keeping up with school, printful, website, student advisor contact
 - Partner
- Alumni comms
 - Alum days
 - Have events
- Overload
 - Delegate
 - Slow down on composites, manage time
- Challenge
 - Squeezing out funding
 - Creating new contacts
 - Up business side, including SM, creating new contacts, maintaining existing relationship with school (alumni foundation)
- Gokart
 - Good idea to get new people building things
 - Raptor good for this too
- Newbie retention
 - Emphasize subgroup meetings
 - 1-2 times a week, make sure they're coming in
 - Don't get people stuck in a subgroup, let them wander
 - Weed out who fits in and who doesn't
- Engineering notebook for leads
 - Leads write down tests they do in their own notebook
 - Keep track of successes, failures, information
- Applications
 - Would not do at this point
 - Intimidating
 - Not yet up to the level to do that sort of thing yet
 - Do more on experience basis
- Biggest issue
 - Hold ourselves to the standards of higher teams
 - Shop cleanliness and organization, will directly raise the bar
 - Keep CAD clean
 - Keep cars rules compliant before testing
 - Look at other teams and observe their practices
- Judgement of compliance
 - Focus on the things we're changing, don't reinvent the wheel after comp
- Legacy
 - Become a team that is taken seriously

- Jesse
 - All things should point towards competition achievement
 - Not for personal gain, do it for comp
 - Clean shop
 - Focused workshops
 - Keeping second car going
 - More outreach
 - Comms
 - FB annoying
 - Technical talk needs to happen in Planner/Teams
 - Email main headlines of the week

- Retention
 - Stuff to do for new people – expect them to not know anything, tasks help them learn
 - New member retention starts at subgroup lead level
 - Starts in planner, starts with actual list of tasks
- Scope
 - Keep team alive, funds coming in, car improving, going to more places, good school relationship
 - Holding ballsy standards
 - Keep chief mechanic, but that'd be the first thing to go
- Ecar
 - Workshops
 - Sister car policy, as close to similar as possible
 - Not redesign each year, keep KS3E very similar to KS5C-KS6C process
- \$
 - Project proposal budget incorporation, cost
- Beat Clemson
 - Not building a car each year, or redesigning from the ground up
 - Keep iterating
 - Running car rules legal every time it goes out
 - Lots of runtime, more autox, barnes, pitt
- Why
 - Uphold higher standard as prez
- Social
 - SM should be subgroup of business
 - Start with making crew with lead and underlings
 - Kennesaw campus people good for this
- Where we go
 - Need to establish yearly schedule of targets with different events and progress points
 - Should have a meeting early on about this
 - Decide based on what cars need, so should prioritize to what car needs more test time
 - Take car that has best chance of placement, whether that's combustion or electric
- Replacement
 - New role, so team could survive without a CM
 - Would do everything to keep CM position alongside prez
 - Graham good fit for replacement
 - Raptor could be new guy
- KS2E before KS6C
 - Have to decide in August what car goes where, that's the split
 - Do it based on what our goals are
 - Need more dedicated ecar people to get it to catch up
- Cost and business
 - More manpower, more organization
 - Go to business building and put up flyers, recruit them
 - Set business goals
 - Be more prepared for presentations
 - Business should do both ecar and 5, don't split
- VP
 - Most experience with the team in regards to school comms, alums, contacts.
- Alumni comms
 - Somebody that knows alumni, like John McCrary
 - Been on team for a while
 - Alumni days
- Overload
 - Keep core priorities
 - Communication is key
 - Divide and conquer
- Purchasing/sourcing
 - Lot of design involves the sourcing process
- Challenge

- Making sure higher standard is upheld
 - Making big, high-level decisions and being the final say
- Gokarts
 - Nothing against em, came on team because of them
- Newbie retention
 - Have a meeting about it, brainstorm
 - Have an engineering outlet for them and have organization so that leads can appropriately divide work
 - Divide by majors, assign majors to something
 - Monday meetings
 - Planner master race
- Engineering notebook
 - Agree
 - Implementing huge hurdle
 - Do simple things before enforcing keeping notebook
- Application process
 - Resume submissions bad idea
 - Need pristine appearance first
 - People at ksu to learn and grow so we shouldn't judge people based on what experience they come to us with
 - Do survey instead of application, google form
- Biggest issue
 - Biggest next step is competition level, competing better and finishing all events
 - Holding higher standards of rule compliance, testing
- Legacy
 - Leave with a better system that creates cars more reliable, presentable, stronger
- John
 - Keep template

=====

Open forum ideas:

- focus more on teams?

- Member retention a problem, needs a plan
- Recruitment ideas
 - Car show
 - Week of Welcome
 - SOAR Fair
 - Need to expand majors recruited
 - Targeted recruitment
 - High school showcase day
 - Kennesaw campus stuff
- Messenger growing pains
- Focused workshops – continue growing
- Sustainability
- Prez should have broad range of experience
- Communication platform
- Keep up with people in gmail

- High school outreach
- Thursday: moved to 8pm
- Ecar 1 continuation
 - Low power drivetrain?
 - Just scrap it?
 - Use raptor to teach circuit design
 - Basic training
 -

Presidential Election Notes 2022-2023

Tuesday, July 19, 2022 12:13 PM

Presidential Election Notes 22-22 Pt 2

Thursday, July 21, 2022 7:02 PM

Electees: Matthew, John, Marco, No pres

Question 1:

Do you think you can successfully mentor Heily, Mihai and Steven

John: Not successful in 2019, 3 people is different, more time to train

Massive role in LV circuits, how will this affect other role

Matt

Nothing will change on things that can be managed

What will you be pulled away from on other projects

Marco

Pulled into EV, feel like give you a direction on the team to help out where I can

How long to plan to be on team, any plans to intern before graduation ? Balance work/ school

Marco: Plann on staying on with intern from past summer, has another 4 years of school and plan on being part of team those years.

Been doing for past semester, work is flexible with schedule

Matt: 2 years left in school, in intern, not working fall or spring with time deciddated to school. Remainder of year to be on team

Weeks up to comp, priority is team. Took double leave from work. Team first

John: In talks with lucid, may not be here during spring. If taken would not be here but will be on team. 14 hours and TA for 10, not TA and school hours that semester.

Would be remote, available for questions

Important role to keep chief eng in check with pres. How would you do this?

John:

What steven is here for, if see anything to call out would be on him.

Matt:

Not sure to entail, has good faith in chief eng and prog manag. Fond of previous chief eng.

Marco:

Not sure to entail, nothing a discussion cant fix.

How do you plan on improving alumni relations:

Matt:

Internship, working with a lot of alumni, all on great terms, estatic to see him as pres.

John:

Been clear who has stuck around is useful to team who isn't, want to see more positive outlook on people leaving. Not pursue alumni outreach on some not useful to the team.

Marco:

Don't know many, would like to talk to more and reach out. Don't have bad relation, seeing how they would interact with me

Facutly relations big, how is your relations with them

Matt: Seen dean and coates, not much, need to get to know them, Know EVT.

Marco: Have little to none interaction with faculty, would like to get to know them, set up meetings and know them before major interactions

John: Take steven around and introduce

- EV and IC relationship/ Resource Management, What, if any challenges do you foresee and how would you counter them?

Matt: Pres specific challenges, Doing part priority, limiting scope, lot of parts interchangable, can only imagine challenges, both cars new, will be tough, nothing I can answer right now

Marco: Wouldn't have much influence on chief eng or board, managing resources haven't had much experience on team

John: Withholding IC to build up EV team, resource management is held to chief eng, reason to have 1 set of chief eng.

What is 1 road block on the team and how did you solve it?

Marco: School/work/life balance, less load with work, with year behind his back , more comfortable with managing team.

John: Realizing when you bit off too much on car design, solved by more experience, see how stuff pans out, seeing and being able to predict,

Matt: Watching parts going out of stock, seeing a missed rule, circuits tough

How would you navigate a situation like eco car?

Marco: Not much info on what it was

Matt: Faculty doesn't know what team is, speak with more school on how to handle the situation

John: Would handle same way, Talked to other before meeting about proposal

What are your plans to organize the shop and keep it clean?

Matt: Work with members to improve organization

John: Did good job when travel, much less in shop, bad for LV, organization is most critical, people assigned to certain areas,

Marco: More solutions to organization, more space to put tools in, hold each other accountable, helped to clean, improve systems

How clean is your personal room/ living area, car

John: Depends on task, not stop to clean on time critical, be show ready

Matt: Bit messy

Marco: Room cleaned this morning, made bed, keep car decently clean

If not elected what will you do

John: look identical, helping Steven run for president. If not win

Matt: Working on both cars, wiring, circuits, projects on priority list, teaching new members, duties as low voltage lead

Marco: Still interested in electrical projects, reached out to business and helping out there

With what you would be doing if not pres, is that more important than being pres

John: Value to independence, but being there to help the team

Matt: Usually one guy does all on wiring/ LV, a lot can be copy paste, LV is luxury but not necessary

Marco: Would shift focus on team, would be better benefit as president

What approach would you take to diversify the teams

Matt; bring women to events use women to get women hide from cade

Marco: More outreach with school, be open to new people, take time to get more girls, being more open

John: Nothing different, retention problem, solve fundamental problem of getting people in Reaching out when people fall off, engineering, not change fundamentally to go after genders

Member Rentention:

John: Found people feel cant fit in, fix in training, not taking on himself

Matt: Talking with hard concepts, making sure to have simple hand on projects, interpersonal side, for subgroups to check in with new members, getting info

Marco: be a face for the new students, get new people to know him, connect to newbs, finding their way to the team.

Intro eligibity

Matt: Keep rules test on hand, not sure to handle setting the bar for applications could help or not, discuss with board, has some ideas

Marco: Rules test good, first meeting didn't understand about team. Important for rules test and what team is about. How to be part of team by asking.

John: Up barrier entry, application can be done correctly but not implemted till ready More up front with what is required. Make rules mandortory, problem with tossing peopl in deep end. After trainings, there should be second step on how serious they are for team and how much they can put in

How to help the rest of the team to grow leaders

John: by having support system, not reasonable to do every event, not difficult to visit other schools

Matt: Support and encourage others, taking risk to step up, Discuss ideas don't seem too hard

Marco: Buddy system, having someone already on team to help show the ropes of the team. Rotations with different buddies. Showing newbs what is available to them

What would cause you to fail as your role as pres

Matt: losing patience with people. Challenge with newbies, lots of dummies, think can handle with teammates and board members

Marco: Inexperience. First year part of team, willing to put in time. With pres before me to help give experience to fill the role.

John: Having steven not to take role over

What would be success?

John: Steven to be pres

Marco: Want to help team, do more

Matt: Helping my teammates

What does being the face of the team look like to you? What is the biggest challenge with that?

John: Be handing it off, attitude kept people from team, building up steven from get go

Matt: Person faculty coming to for team, being professional, being face to new guys, being friendly. No challenges with faculty, keeping up standard held, If see potential, bring towards team, not if threatening to team

Marco: Setting culture to team and showing to new members and school, ensure that the first culture introduced is what the new members will see

Wil you leave current board position for pres

Matt: No

John: no

Marco: N/A

How do you plan to help out the chief eng and the goals they set out

Matt: First to do LV part

John: Faculty don't stand in their way, deadlines looked and check calendar, card access, ensure const. doesn't interfere

Marco: Team decisions, figuring what they need help with for people and managing deadlines

Would being Pres cause bias to Groups

Matt: no, find what people want to do then point them to that

John: Done best to fill subgroup as needed

Marco: talk with chief eng, market positions when they open up for the better of the goals

Do you think power of pres is overreached?

Matt: To be evaluated with other board members

John: credit for 2/3 for chief eng, same for pres, if see reasons to add throughout year then add

Marco: Something that should be considered, if powershift, should be discussed.

Why do you feel that you should be president as to there not being a pres

John: breakup of items better and more efficient with one person, better to handle unforeseen problems. Items popping up that is not under someone, IE filler. Someone has to deal with lawsuit

Matt: Need to be a guy to hold accountable and hold others also. Unforeseen, more to pres than all the bullets in list.

Is your attitude a benefit or detriment to the team

John: believe to be a benefit

Matt: People left were not worth having around, and did drive people away

Marco: Agree

How to solve online doc mess

Matt: Converging 5 and EV to same teams, resource is useful to team, no prob

Marco: Should aim to have a wikipedia, one central location to find documents, Teams current, wiki is archive

John: Merge all the teams, onenotes are good source to look back on, project proposals = good

What legacy do you plan to leave behind?

Matt: Be remembered as good pres, not overstep my bounds, transparent, documenting, making decisions with others 1st black pres

Marco: someone willing to help out, to stand up, to sacrifice to help out the team. To be a team that is there for each other

John: stability and effectiveness

If problems arise between members on team, how do you plan to fix

John: sit them down like children and find root of problem

Matt: problem solve, squash

Marco: don't take sides

How will you show the members of the team you are backing them up

Marco: See what goal of team is. Properly addressed

Matt: keep up communication with team, ask questions do you have everything you need, being in shop, seeing everything that is going on

John: No answer

If you start failing, what will you do to help

Matt: ask people to help where behind, ask board

Marco: Talk more with board members, if not being benefical, guaging on how im doing

John: no value in question

If approached if making mistakes, how you would approach the situtation

Matt: Bring in other from the team, take it and accept what they say

Marco: Ask if is a common issue, ask others of team, is this a priority

John: Bring in others

Whats your stance on chief mechanic?

Matt: Not seen enough to call, dissuss with team and board if to come back, to evalulate

Marco: Accountability to person, worth having dissussing if benefical

John: Everything on role def falls on chief eng.

Do you think you are respected by the team depending on that, how does that affect your pres in year

Matt: yes, don't see it will affect.

Marco: like to think is respected, but is least experienced. Want to show capable of role

John: Enough to get the job done

Plan to restore resources to expire

John: work with school for truck, look at people coming in and not rush it, play by ear

Same for both

What is your reasoning for not / is standing up first night

Marco:Want to help out as much as possible for team to help, can be benefical

Matt: Didn't dwell on day of, made decision later

John: Block others from running, ran to stop the cycle of being a non race each year

Who would be VP?

Matt: yet to make decision

Resources and Notes -> [That way]

Communication and Meeting Notes with Matt Khouri (Bottom Right)

FOR COMP FILES GO TO: KSE-C Teams -> Business -> Files -> 2022 Comp Bis Presentations



Notes and Helpful Resources

Industry-Wide Electric Push:

<http://www.nikkei.com/industry/industry-and-assembly/our-insights/why-the-industry-future-is-electric/>

- Large portion of the push for EV infrastructure is because of regulation.
- "Governments and cities have introduced regulations and incentives to accelerate the shift to sustainable mobility. Regulators worldwide are defining more stringent emissions targets."
- These increasing mandates, regulators worldwide are defining more stringent emissions targets."

Operational Efficiencies:

<http://www.nikkei.com/industry/industry-and-assembly/our-insights/operational-efficiency/>

- Includes measures and definition of the key aspects of operational efficiency.
- Identifies crucial areas of business that can refine for better efficiencies.
- The bottom of the article links to multiple resources related to operational efficiencies; it's good idea to skim them.

Labor Force:

- Labor Force Participation rate
- <http://www.nikkei.com/industry/industry-and-assembly/our-insights/what-does-the-labor-force-participation-rate-mean-for-businesses/>

Economic Benefits:

- Company Profits/Revenue compared to Cost to Make EV
- Resources
- "Summaries"

With the push to EV, we had to change our marketing strategy both to our customers and employees.

- Labor change
- Connection between customer and employee based on leisure and similar interest
- College fund, virtue feel good, competitive opportunities, career and training pathways
- Small selective groups, more craftsmen like products, more together as a team

Comments:

Presentation Event Judging Score Sheet

FORMULA SAE

University: Cart
QC: Judge Initials

The Presentation by the team should reflect an understanding by the team of the scenario put forward in the Presentation event section of the Formula SAE rules, while maintaining a direct relationship to the team's original goals and objectives of the overall vehicle.

Scores must be assigned any number of fractions (0.5 point increments) between 0 and the maximum points available for that category.

- 0% of the possible points = inadequate or no attempt
- 25% of the possible points = attempted but below expectation
- 50% of the possible points = acceptable
- 75% of the possible points = above average but not perfect
- 100% of the possible points = excellent, perfectly meets intent

15 CONTENT: Was there recognition of the proposed scenario while maintaining a primary relationship to original vehicle targets and rationale? Was there appropriate coverage of the scenario's impact on technical, research & development, manufacturing, supply chain, financial, and marketing areas? Was there a clear connection between the proposed solution? Were all aspects of the business integrated as part of an overall strategy?

10 ORGANIZATION: Were the team's thoughts presented as a logical order of progress? Were the transitions from thought to thought clear and concise? Were distinct introductions and overviews as well as summary and concluding given?

15 DESIGN: VISION & AESTHETICS: Did the presentation's goals as a clear view? Did they show enthusiasm and presented a clear vision of what they wanted to do? Did they show what they believed in what they were picking? Were visual aids used or clear visual references made to the car? Were the illustrations visible for all the audience?

10 QUESTIONS: Did the judge(s) ask questions that fully followed the questions? Did the team create a sense of complete confidence in their responses to the questions? Did they readily accept the validity of the judges' questions? Did they appear to be prepared for questions?

50 TOTAL = PRESENTATION POINTS (50 points maximum)

COMMENTS:

© 2022 SAE International. All Rights Reserved.

RECAP W/BOARDMEMBERS

-Think of it has mass production
 -MAN HOURS VS CAR PRODUCED
 -COST TO REMAKE CARS EFFICIENTLY

PROMOTE:

Shift virtual to in person
 -Virtual meeting improvement
 -production improvement by flexible meeting methods

TIME MANAGEMENT:

-Time management
 -PUMPING IN GRADS
 -BROADEN THE M
 -INNOVATION TECHNOLOGY COMBUS VS EV, TRAINING
 -Offer merits; Robert Glenn Allen- student who possesses leadership skills
 -TEAM MEMBERS: Are auto-allocated into the chance to win scholarship

-weekly rotations of responsibilities, free training
 -resume building, networking, professional skills development

Why is IC companies still running?
 -cost of manufacturing compared to manufacturers EV cars
 -draw dot to

3 changes

Electric push

Operational efficiencies

Labor force

To address:

Email Chain with Matt Khouri:

04-22-2022

Dear Mr. Khouri,

I hope this email finds you well. My name is Steven Tubb, and I am a member of the FSAE Motorsports team here on the Marietta Campus. I approached you earlier today asking for more information about the review process for our student-style presentations. I am part of the group presenting our official business plan and would welcome whatever information you may have to help us prepare for our presentation. Any advice or direction to other campus services that would be of interest would be greatly appreciated. We are trying to lay the foundations for future presentations by collecting resources and information that will help to form a strong presentation team going forward. We believe this is important for advancing our team's competitive ability and strengthening our public image. Thanks again for the assistance!

Sincerely,

Steven Tubb

001030922

04-25-2022

Dear Mr. Khouri,

Thank you so much for your time! I will be back at the Marietta campus by 11:30am tomorrow. My 2:00pm chemists lab finished up last week so my afternoon on Tuesday will mostly free now. I am available from 11:30 onwards, whenever you feel is best. I have attached the prompt and grading rubric for the presentation to this email. If you have any questions or need any other resources or information from us, please feel free to reach out to me. Once again thank you so much for your time. Please extend my gratitude to your colleague as well.

Sincerely,

Steven Tubb

001030922

04-25-2022

Dear Mr. Khouri,

I hope this email finds you well. Regarding our presentation later this afternoon, our focus is trying to refine our language, presentation skills, and public speaking as our presentation content is still fluid. Solidifying our appearance and receiving feedback from you and your colleagues will be of great help to our team in the long run. Thank you again for taking the time to assist us!

Sincerely,

Steven Tubb

001030922

04-26-2022

Dear Mr. Khouri,

I hope this email finds you well. Regarding our presentation later this afternoon, our focus is trying to refine our language, presentation skills, and public speaking as our presentation content is still fluid. Solidifying our appearance and receiving feedback from you and your colleagues will be of great help to our team in the long run. Thank you again for taking the time to assist us!

Sincerely,

Steven Tubb

001030922

04-26-2022

Dear Mr. Khouri,

Thank you for the information! We'll make sure to take that into consideration this afternoon so we can give you feedback that hopefully will be useful.

Sincerely,

Steven Tubb

001030922

SAE INTERNATIONAL

FORMULA SAE BUSINESS PRESENTATION CONCEPT

February 8, 2022



EXECUTIVE SUMMARY

Due to continued operations during COVID-19, the business presentation event will be hosted virtually in 2022.

For the 2022 competition, all teams will participate in an initial round of judging taking place via video conference using SAE's platform called MyRun. Selected teams will then be invited to compete in a final round onsite in person at the team's regional competition.

Teams will be supplied with a static schedule at least one month prior to the virtual presentation date of each specific competition. Teams will be assigned a date to present based on their registered competition. Presentation Finals will be announced within a few days of each assigned date. Teams will send an email confirmation

Steven — Push for EV, in worldwide scope and what it means for us.
 Marco — Manufacturing OE
 Michael — Market & Economic effects, etc.
 Reilly — Labor force, Supply chain
 Mukund — Manufacturing OE,

OUTLINE:

Intro: Introduce the team ("Good afternoon, we are Kenneway Motorsports and we are here to present our business model to you, name it... go down the line in presentation order"). Then launch into the slides.

L. Push for EV – Steven – federal and state rebates

- a. Governments are pushing for more EV cars
- b. This provides incentives for businesses to shift their focus from ICE to EV
- c. So does it affect us?
- d. The shift to EV means that companies need to hire individuals that have experience with EV products. Through FSAE we can gain experience and can use our skills to grow their company. This will benefit the company itself and the development to their EV program.

e. How can we take advantage of that?

- i. Design of the K55 and the K52E
- ii. Highlight the similarities between the K55 and K52E chassis
- iii. Push for EV, pay off student loans, opportunities and career pathways, playing to the empathetic side of the consumer

f. Use that to link to operational efficiency.

Resources:

<http://www.nikkei.com/industry/industry-and-assembly/our-insights/why-the-future-is-electric/><http://www.consumergroups.org/hybrid/electric-car-market-share.html><http://www.consumergroups.org/hybrid/electric-car-market-share.html>

ii. Operational Efficiencies - Marco

A.

B.

Resources

iii. Labor force:

Developing change between employees and consumers???????????

a. Due to non traditional workspace, people want to stay home and work on their cars, relate to consumer

b. Higher demand, pay off student loans, opportunities and carrier pathways, playing to the empathetic side of the consumer

c. We can spin the limited amount of people at once as a positive. Non traditional workspace, developed, close team, smaller groups, more like craftsman like product.

Resources

iv. Marketing & Economic Effects,

a. SAE

b. FSAE

c. pfnjnj

Resources:

<http://www.gas-electric.com/intl/gas-electric/industry-and-assembly/our-insights/why-the-future-is-electric/><http://www.brooklin.com/case/20120710/201207104000135-winning-strategies-for-marketing-and-selling-electric-vehicles/><http://www.fueleconomy.gov/feg/foia/foia01.htm><http://www.globalmarketshare.com/global-market-share-of-electric-cars-more-than-decided-2012/>

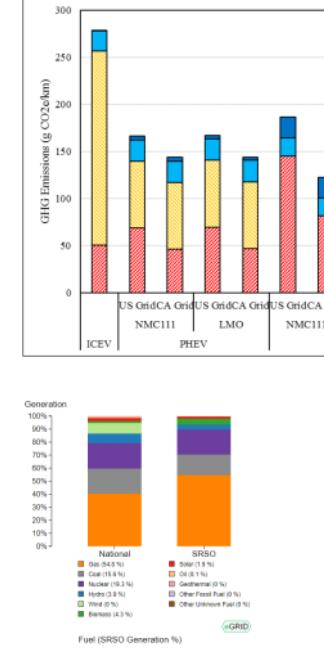
v.

A.

B.

Resources

Conclusion: "Thank you for listening to our presentation, are there any points that you would like clarified or expanded?"



Revised Outline:

Intro:

1. Greeting statement (Hook - ATTENTION!!)
2. Introduce ourselves (Include specialties/major(s))
3. State Marketing Strategy (MAIN TARGET POINT TO CIRCLE BACK TOO)
4. State our main objectives

5. Staff

a. Labor

b. Manufacturing

c. Operational Efficiencies

d. Marketing

e. Product

f. Financial

g. People

h. Business

i. Support

j. Redundancy

k. EV

l. More

m. Global

n. Disruption

o. Support

p. After

q. After presentation

r. Your presentation

s. The end

t. Team Action

1. Create

2. After presentation

3. After presentation

4. Important

a. Maximize

b. Maximize

c. Reduce

d. EV

e. More

f. Global

g. Disruption

h. Support

i. Support

j. Redundancy

k. EV

l. More

m. Global

n. Disruption

o. Support

p. After presentation

q. The end

r. Team Action

1. Create

2. After presentation

3. After presentation

4. Important

a. Maximize

b. Maximize

c. Reduce

d. EV

e. More

f. Global

g. Disruption

h. Support

i. Support

j. Redundancy

k. EV

l. More

m. Global

n. Disruption

o. Support

p. After presentation

q. The end

r. Team Action

1. Create

2. After presentation

3. After presentation

4. Important

a. Maximize

b. Maximize

c. Reduce

d. EV

e. More

f. Global

g. Disruption

h. Support

i. Support

j. Redundancy

k. EV

l. More

m. Global

n. Disruption

o. Support

p. After presentation

q. The end

r. Team Action

1. Create

2. After presentation

3. After presentation

4. Important

a. Maximize

b. Maximize

c. Reduce

d. EV

e. More

f. Global

g. Disruption

h. Support

i. Support

j. Redundancy

k. EV

l. More

m. Global

n. Disruption

o. Support

p. After presentation

q. The end

r. Team Action

1. Create

2. After presentation

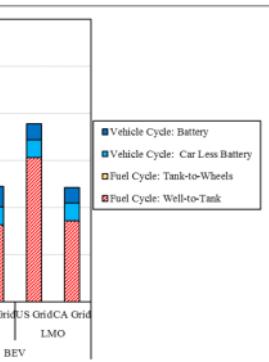
3. After presentation

4. Important

a. Maximize

b. Maximize

c. Reduce



Production Emissions
- go to graph that compares EV to IC carbon emissions
- production lines dump more CO₂ compared to IC lines during production
Manufacturing and Support Infrastructure
- EVs require less parts and fewer repairs for IC
Stations vs Charging Stations
- Charging stations are being placed for commuter accessibility there is no long distance
- available in most areas
- stations are fast and easy, also support convenience store market
- Charging stations take time, : cost ratio (influence relationship)
Age portion of the population is involved in some aspect of IC vehicles. They can be in the
workforce as mechanics, engineers, and factory workers. Or just a normal consumer
using their gas vehicle to work.
workforce requiring long driving and short turnaround times out vehicles fit best.

Action Items – Please Complete ASAP:

e an account at <https://hopin.com/>

Creating your account, navigate to <https://hopin.com/events/fse-may-business-iteration> and register for the event. You will select the "Student Presenter" ticket.

You're registered above appropriately, you should be able to access your ticket number by copy/pasting the unique link below (yellow highlight) into browser after logging into your Hopin Account. **YOU MUST enter the session link and NOT by navigating through the website.** You will only be able to access your session as a **presenter** by clicking or copy/pasting the link below:

Team's Link: <https://app.hopin.com/events/fcae-may-business-presentation/sessions/e66b3c76-08ad-49e0-3dd3-d8769af47ee>

Notes:
sure when creating your account that you use the same email address, and
name that your team lead provided in the Presenter Form submission.
of presentation use the link in Action Items #3 to navigate to the room. DO
not navigate from within the Hopin site, use the specific link in #3.
tations will be recorded and shared with your team after upon request, so
do not share your link with anyone.

If you are running into any issues, please email us at datecompetitions@sae.org. Day of issue can also be routed to datecompetitions@sae.org.

our local setup with the Hopin Pre-Event Check
you've created your account & registered for the event, [visit this link here](#)

EXECUTIVE SUMMARY

Due to continued operations during COVID-19, the business presentation event will be hosted virtually in 2022.

For the 2022 competition, all teams will participate in an initial round of judging being placed in a virtual format using SAE's platform called Hopin. Selected top teams will then be invited to compete in a final round onsite in person at the team's registered competition.

Teams will be supplied with a static schedule at least one month prior to the virtual presentation dates of each specific competition. Teams will be assigned a date to present their business concept to judges. Presentations will be conducted within a few days of each assigned date. Teams then will present onsite at competition as part of the finals. An assigned schedule will be released closer to the in-person competition.

The virtual presentation event dates which will be as follows:

May competition - April 29, 2022

June competition - May 6, 2022

The event will operate between hours of 11:00 AM and 5:00 PM Eastern Time.

SAE staff will require action from student presenters to affiliate all student presenters with assigned time slots. SAE will push communication out at those times using the Formula SAE App and saefonline.com newsletter.

Note: For this year, the IC and EV classes will have their own business concept to develop and present to judges.

INTERNAL COMBUSTION

2022 Business Presentation Concept

As the General Manager of <insert company name here>, you and your team of executives will be required to speak to the board of directors about addressing how the company has addressed the needs of the market, the supply chain of EV specific components, charger infrastructure, and provide an update on the labor force. What supply chain issues has the company been forced to handle with developing new suppliers, sources, and shipping requirements/regulations?

The operational efficiencies section should address upstream cost increases, labor hours per vehicle produced, supply chain road bumps over the last year, and any other relevant information. The labor force update must contain information on how the non-traditional workers have impacted productivity, how turn-over rate has changed from years past, and staying competitive to new and current employees.

Reminders/Notes:

- Teams will be assigned 30-minute appointments
- Time limit for the presentation remains 10 minutes to present.
- All presenters must be introduced at start of presentation.
- There is NO SUBMISSION for the 2022 competition season.
- All teams must participate in virtual presentation to be considered eligible for in-person competition.

ELECTRIC

2022 Business Presentation Concept

As the General Manager of <insert company name here>, you and your team of executives will be required to speak to the board of directors about addressing how the company has addressed the needs of the market, the supply chain of EV specific components, charger infrastructure, and provide an update on the labor force. What supply chain issues has the company been forced to handle with developing new suppliers, sources, and shipping requirements/regulations?

Explain and justify the company's plan for a charger infrastructure. The labor force update must contain information on how non-traditional workers have impacted productivity, how the turn-over rate has changed from years past, and staying competitive to new and current employees.

Reminders/Notes:

- Teams will be assigned 30-minute appointments
- Time limit for the presentation remains 10 minutes to present.
- All presenters must be introduced at start of presentation.
- There is NO SUBMISSION for the 2022 competition season.
- All teams must participate in virtual presentation to be considered eligible for in-person competition.

04.26.2022
Good morning, Steven,
Thank you for the information! We'll make sure to take that into consideration this afternoon so we can give you feedback that hopefully will be useful.
See you all at 21
-Matt

5. Staff Done Right
Q: Debrief context was a really good move, we related to the aftermath of COVID-19 and how it affected the global economy down to individual businesses.

Outline:

[Intro](#)

Strategy: Support Secure Sustainable

1. **Statement:** Hook: ATTENTION!!
2. **Introduce ourselves (Include specific/major)**
3. State Main points of addressing road blocks (MAIN TARGET POINT TO CIRCLE BACK TOO)
 - a. **Labor Force**
 - b. **Supply Chain**
 - c. **Charger Infrastructure**
4. **Transition to Labor Force** ([Insert Name Here](#))

Labor Force:

1. **Cause:** Pandemic limited traditional work environments
 2. **Effect:** Non-traditional work environments took an upwards climb
 3. **Solution:** The non-traditional work model allows our employees to spend more time doing what they love. This has increased employee retention and reduces the carbon footprint because of the significant decrease in commuting workers.
The products created by these tightknit, specialized groups can be marketed as more craftman-like products.
 5. To connect with our customers on the side, we can advertise the college scholarship and career opportunities in our company.
 6. Talk about how college scholarships and career pathways help increase worker retention by offering more reliable benefits in a highly volatile labor market.
 7. Use incentives to encourage employee development and growth in the economy and supply chain
 8. **Need:** Labor hours per vehicle (2500hrs), update the tenure
- Ladder incentive pathway encourages employee development and growth increasing employee tenure
- Bydy using this method we can keep our market charged with our vehicles
To keep our vehicles on road we have a robust plan for Charger infrastructure

Supply chain changes:

1. **Cause:**
2. **Effect:**
3. **Solution:** Average Shipping Delay: Times off employ
4. **Need:** Currently has 1 and for 2, Shortages of Chips and raw production materials (silicon), supply delay, adapting designs based on stock parts, Variability in shipping lead times (Cannot do same day shipping and cannot predict specific arrival dates)

Charger Infrastructure:

1. **Cause:**
2. **Effect:**
3. **Solution:**
4. **Need:** Piggyback mode, Charging at home (Make it fancy!)

Conclusion:

1. Short summary of content
2. Tie it back to change in supply strategy

Disclaimer:

[ONLY PRESENTERS CAN EDIT] [VIEWERS AND REVIEWERS CAN COMMENT] PLS N THX :]
[EDITABLE OUTLINE WITH DETAILS]] Structure follow Revised Outline Above
https://docs.google.com/document/d/1Jz-0PFgHOMa23M07y4hRf05Cera03Phv4_b4tDtg/edit?#outline

Electric Boats:

- We can use similar notes for labor force as it is the same.
- The charger infrastructure seems like charge points andTesla stations type deal. We can look into their strategy for how they expanded. Or we could also just say, since we are not the size of Tesla, we will just add our charger to be compatible with ChargePoint etc. Talk about average spread and how we can do the same thing with our chargers.
- Supply chain issues not about ordering things. But because of the shortages in the market, how we keep a secure supply chain through diversification and contracts etc. Chip shortage, battery supply problems.
- We must remember to summarize THE ACTUAL PRODUCT this time

Hello,

This is a reminder to copy and paste the link below to join your presentation today at 1:30 PM EST.
<https://app.hopin.com/events/754e-june-business-presentation/sessions/73894a1c-007d-4c59-b445-744605c02055>

Thank you

[Scott Schultz](#) | University Program Support
SAE Internship Program
m = 714.238.2321
[SAP Logon](#) | [Facebook](#) | [Instagram](#) | [LinkedIn](#) | [Twitter](#)

Our SAE University Programs involve participants, sponsors, partners, and other third parties. [ARE YOU UP TO THE CHALLENGE?](#)

3/23 Meeting

Thursday, March 23, 2023 6:53 PM

Cool Article related to prompt

<https://mobilityforesights.com/product/formula-1-racing-market/>

General TO-DO

Recruitment

Media

Future Plans

For Business Pres

Don't use the presentation but have a conversation over the points in the presentation
Show them our old presentation and see if they want to give us feedback

How much liberty do you take in defining your market

- Yes

How do we define what our company uses the car for

-

Is this the vehicle we sell

Or

Do we use our highest tech to roll into other cars

How do they convey their information (Relevant)

On the Flow Chart

Address how we got our target Audience

Use profit from selling racecars to put into production cars?

Focus more on racing technologies

Business to consumer or Business to business ?

What assumptions can we draw?

For IC we are going to EV

For EV we are going to Hydrogen?

Hydrogen Combustion or Hydrogen Fuel Cell?

What other power trains can you use?

Meat and Bones answered in questions? (Appendix)

Presentation Flow?

How Do we highlight the changes

Our audience?(Described in Appendix)

Talk more about our production plans?

Are we starting production soon or are we just starting to transitions

Can we send our judges a pre presentation Handout

4/6 Meeting

Wednesday, April 05, 2023 1:41 PM

To Do:

- Set weekly deadlines
 - Schedule practice sessions
 - IC Presentation 4/27
 - EV Presentation 5/11
- Create PPT template for EV presentation
- Review IC research and fill out template with decided items:
 - Choose target market
 - Define product
 - Define company
 - Decide general implementation plan
- Review EV research and fill out template with decided items:
 - Choose target market
 - Define product
 - Define company
 - Decide general implementation plan

IC Research Final Decision

Target market:	Consumers/Individuals
Product	Racecar
Company	KRT (Kennesaw Racing Technologies)
Implementation Plan	Hails Cascade Plan - "Cascade" can have different meanings depending on the context, but generally, it refers to a sequence or series of events or objects that follow one another in succession, often with a progressive or amplifying effect.

Misc. Notes:

- "Spice"
 - Looking into Cool EV motors (prez)
 - Racetrack Charge (prez)
 - Consumer Cars/Conversion Kits(appendix)
- GOAL (WE ARE BOLD AND SHIT ON OTHER CARS :D)
 - Change the perception of EV cars
 - To sell a competing electric race car that can compete with a competitive IC car

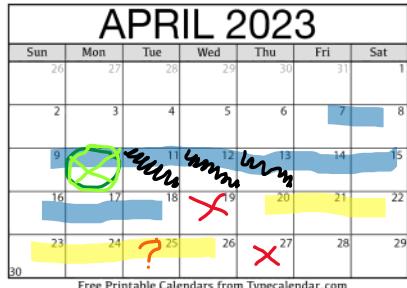
EV Research Final Decision

Target market:	
Product	
Company	
Implementation Plan	

Misc. Notes:

-

Meeting Notes:



Free Printable Calendars from Typicalendar.com

PPT Drafting: 7th-18th
 PPT Finalized: 19th
 Presentation Practice: 20th-26th
 Practice with School People: 26th
 Presentation: April 27th

BODY

Bold marketing

Track test drives

New technologies

Cool Motor/Batteries

Cool Safety features

Investment infrastructure

Recycle program

Charging stations at racetracks

Notes

- o Recycling Program (prez)
- o More research and info on slide info (appendix)

Firing IC Staff and bringing new Engineers changed the culture in a negative light

Keep IC market research says culture hard to create
 Had good workers who understood our commitment to performance and team mission

Increased management positions to account for struggles of transition

Reflect initiatives of bold marketing 15-30% increase in marketing hires

Mention covid and remote work opportunities helped retention and exemplified team culture

Charging Infrastructure

In pit lanes and parking lot

Invest in EV's around race track parking lot charging stations

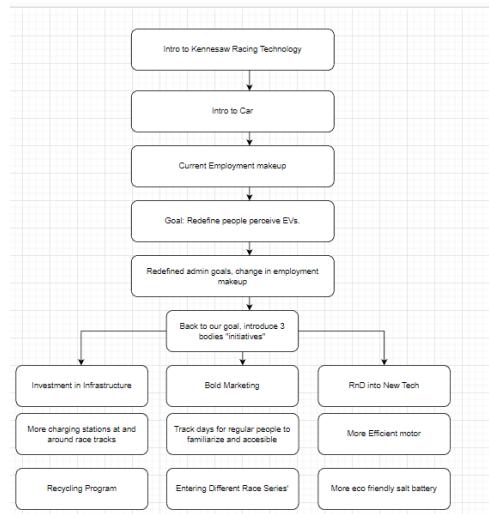
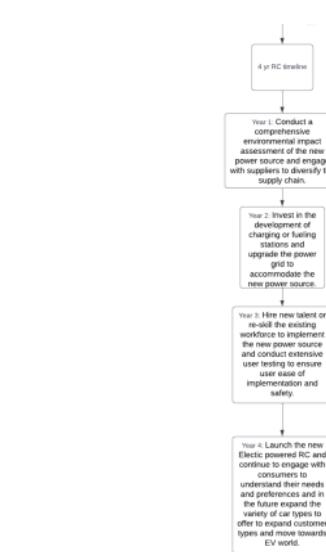
Relationship with Eco-sustainable suppliers (Fair Trade Certified)

Have an Exchange program for people with lithium batteries for our sodium battery packs

Same platform as before just different powertrain

Track day experience gets customers use to cars

Have engineers answer customer service questions



4/10 Meeting

Monday, April 10, 2023 5:43 PM

What make us different

How will we sell it

Who are we selling to

Changing perspective, look at long term

For track days, say you partner with SMI, sponsor track days and electrification

Working with SCCA to ensure vehicles are allowed to race in local chapters
SCCA Approval in more places

Feedback and Further Research Items

Product: - What kind of racecar? How will customers use it? (What events will it run? What category will it fit into if racing with say, SCCA?) - Are you offering customization? To what extent?

Implementation: - Cascade plan is internal to the company. It is a great way to make sure every department is contributing effectively to the main goal. You still need an external strategy also. How will you sell it? What are your competitors doing? How are you better than them in your customer's eyes?

"Changing people's perspective of EV" is lofty and generic. What does this mean? Who are these "people"? What is their current perspective? What are you changing it? How does that change of perspective benefit you in the long term?

"Sell EV cars that can compete with IC cars" How does it compete with IC? On the track, in pricing, services, power?

If offering on-track test drives, do you own a track? Is it a partnership with a track?

YEEEEEE

- Competitors: Ariel Atom, Radical SR, KTM X-Bow, Caterham
- Changing Perspectives: don't trust technology, speed zoom, ease of use

4/17 Meeting

Sunday, April 16, 2023 3:11 PM

Goals of the meeting:

- Go thru the PowerPoint and discuss what we like, didn't like, and feel is still missing
- Check for flow of the PowerPoint and appendix
- Make a list of items to have by Wed so we are ready to present Thursday
- If not already done, have everyone make talking points for their slides



Feedback and Further Research Items

Product: - What kind of racecar? How will customers use it? (What events will it run? What category will it fit into if racing with say, SCCA?) - Are you offering customization? To what extent?

Implementation: - Cascade plan is internal to the company. It is a great way to make sure every department is contributing effectively to the main goal. You still need an external strategy also. How will you sell it? What are your competitors doing? How are you better than them in your customer's eyes?

What make us different

How will we sell it

Who are we selling to

4/26 Debrief

Wednesday, April 26, 2023 8:14 PM

Dean Case

- What does it cost
- Who is ur competition, what do they cost
- Clarify spec car
- Are we using dealers, how many cars produced, how much cost to produce that many cars
- May be confusing that we are presenting a formula car as an autocross car
- Creates room for disbelief
- Total cost of ownership
- Why buy vehicle? Is there a specific competition to ur product
- Did market tank for race cars? Chips?
- Backlog for gr champ cars
- Make a slide for any question asked
- Cost to cover 32 SCCA events, driving to and at the events
- What is staff chart trying to say
- Private site?
- If finals, take printed of the slides to the comp LOL
- Source at bottom for charts, track correlation between lux consumer car data and race cars
- MX5 cup car is under 300 for 7 years, 1000 cars might be unrealistic
- He would rather lose a couple points to rubric for knowledge and understanding of the market
- More depth of knowledge
- Don't make up data, but if they call u on it then u can at least source to a company
- How many semi-conductors does a race car need
- "let's review the most frequently asked questions"
- North American market or global, check competitors cars
- Cost of a trailer, road legal car?? Fit in truck bed
- Toyota gr86 competitor
- People who have Ferraris but want a disposable car, cheaper to maintain and fix
- Sources for macros appendix slides and price performance comparison
- Implementation plan? Cost of adding the new machinery to make this possible
- Source for appendix slides??
- When does the first revenue come in and when's the burn rate of that
- "Drive to Survive" creates a big interest in the market
- Jim Downing for EV Business?
- Look at Baja presentation if time permits
- Lux and sports car market overlap ;;
- Autorotative country clubs
- Motozelo in new york, thermol in cali
- Capacity to have wireless chargers at race tracks, and who pays for it
- L Bozo ;;
- Why should race tracks invest in wireless tech

Seth, Bray, Britt

- Every supplier has the same issue, how do you change to combat another covid-19 scenario?
- Where did Sam get his market data numbers?
- How do you combat productivity drop with remote work?
 - o Goal based work hours, depends on what u get done instead of time
- What areas are u targeting for marketing? America? Where in America? Map
- How to transfer racing connections to making a real purchases?
- How to make that connection to the consumer that its something real to buy?
 - o A lot of tracks now have sim areas
- Overlap of people who do sim racing and real racing events and driving themselves
- Merch??
- Cost more, data?
- Transportation of data?
- How do they know the batteries are going bad?
- Profits of it?
- Make it easy for the community
- Show car again
- Work on transitions
- Review the rubric and see what topics aren't filled
- Maybe look over order
- Comparison better motor technology
- Competitors points need to relate more to why we are better
- Minor font size inconsistencies

05/01 meeting

Monday, May 1, 2023 10:01 PM

Goals of Meeting:

- Decide powertrain switch
- Decide what slides to keep and switch

Conclusion:

- Biofuel with a supercap system using starter motor boost
- Supercap has high discharge for use in starter
- Higher density fuel can reduce engine size
- (Turbo?)
- Opel Fuels and Arclite
- Weight saving and complexity
- Partnering with Biofuel companies
- Mild Hybrid Motors?
- Costs for the systems
- Feasibility of Supercaps
- Sell sustainability and Performance with fuel
- Performance with Supercap

X

Research the marketing

Who we selling to

- Consumers of our competitors?

Why they buying

Accessibility

EV cant hang

Competitors? Or Spec Series

Are there Hybrid series?

Keep as much as possible (SCCA, Goodwood, SIM)

- Country clubbers like AMP

Fire suppression systems built in racecar

Change history of company

Talk why ecars didn't work

Run Time, Performance, Battery Life

Profit margin and Burn Rate

Cost and Markup

***schedule review days with peeps next week

5/10

Wednesday, May 10, 2023 9:16 PM

Britt's Presentation Feedback

Thursday, April 20, 2023 6:06 PM

Presentation Event Judging Score Sheet		FORMULA SAE
University:	Car#:	
Ques:	Judge Initials:	
<p>The Presentation by the team should reflect an understanding by the team of the scenario put forward in the Presentation event section of the Formula SAE rules, while maintaining a direct relationship to the team's original goals and objectives of the entered vehicle.</p> <p>Scores must be assigned any number or fraction (in 0.5 point increments) between 0 and the maximum points available for that category</p> <ul style="list-style-type: none"> 0% of the possible points = inadequate or no attempt 25% of the possible points = attempted but below average 50% of the possible points = average or expected 75% of the possible points = above average but not perfect 100% of the possible points = excellent, perfectly meets intent 		
<p>/15 CONCEPT: Was there a clear vision of the proposed scenario while maintaining a primary relationship to our final vehicle intent and outcome? Was there appropriate coverage of the scenario's intent on technical research & development, manufacturing, supply chain, finance, marketing, human resources, and sales concepts in the team's proposed solution?</p> <p>Were all aspects of the business integrated as part of an overall strategy?</p> <p>/ 10 ORGANIZATION: Were the team's thoughts presented in a logical order of progress? Were the transitions from thought to thought clear and concise? Were distinct introductions and overviews as well as summary and conclusions given?</p> <p>/ 15 DELIVERY AND VISUAL AIDS: Did they speak in a clear voice? Did they show evidence of audience engagement in the presentation? Did they maintain eye contact? Were you convinced that they believed in what they were pitching? Were visual aids used or clear visual references made to the car? Were the illustrations visible for all the audience?</p> <p>/ 10 QUESTIONS: Did the presenter(s) answers illustrate that they fully understood the questions? Did they create a feeling of complete confidence in their response to the questions? Did they readily accept the validity of the judges' question? Did they appear to be prepared for questions?</p>		
/ 50 TOTAL - PRESENTATION POINTS (50 points maximum)		
<p>COMMENTS:</p> <hr/> <hr/> <hr/>		

© 2022 SAE International. All Rights Reserved

COMBUSTION & ELECTRIC CONCEPT:

2023 Business Presentation Concept

Your company's board has voted to take an aggressive approach to develop a vehicle powered by a different power source.

Coming out of a global pandemic, racing car production will shift to respond to significant global supply chain constraints, increased regulatory hurdles and rapid advancements in new technologies. Following the company's deliberate push to stay on the leading edge of propulsion system technology, you (as senior management) are to prepare and present a strategic plan that will introduce a new power source, regardless of how new or cutting edge the current system is.

This strategic plan should incorporate global supply chain issues, environmental impacts and sustainability, power source infrastructure developments, talent and labor issues (including remote work), user ease of implementation and safety, and market demand. You are also to develop the time frame for implementation of this strategic plan and all goals contained within it, including justification for whatever timeframe you choose. All these factors should build the business case for how this plan positions the company to maximize future success.

Reminders/Notes:

- Teams will be assigned 30 minute appointments.
- Time limit for the presentation remains at 20 minutes to present.
- All presentations will be introduced at start of presentation.
- There is NO SUBMISSION for the 2023 competition season.
- All teams must participate in virtual presentation to be considered eligible for in-person competition.

Feedback 4/20: Rough draft of presentation and talking through flow.

Intro and Flow:

- Focus on storytelling. Abri had a good flow mentioned a week or so ago. Stick to that, then add some conversational transitions, and build your points and slides to climax at your Product Differentiation (what makes you better than the competitors). Implementation and the appendix should support how that differentiation will actually be created and why it makes your customers care (and your competition sweat).
- A note on flow: there's no right answer. It really doesn't matter if you go intro->customer->product->marketing strategy>implementation or intro->product->customer->competition>marketing strategy>implementation. As long as the order is logical and helps you tell your story, it's good! With that in mind, here's some ways to do this throughout your presentation.

○ Intro = what we want to talk to you about and why you should listen

- (In public speaking, this is called the "hook." It's what catches the audience's attention at the beginning. It can be a phrase, analogy, graphic, etc. It doesn't really matter what it is, but it should be quick and eye catching. Here's some ideas: <https://www.skillpacks.com/presentation-hook/>) BONUS POINTS if you close your presentation in reference with the same hook.

○ Customer = who are we selling to and why want our product over the competition's product. Describe the target market. Is there a specific pain point or problem that the customer has? Describe it. You want to be able to walk through life in their shoes and really understand why they buy what they buy.

○ Competitors = the other ways that the customer can resolve their pain point or solve their problem other than you.

○ Problem = what makes our offering different from the competition (in business terms, this is your product differentiation and competitive advantage). Explain how your product resolves the customer pain point or solves their problem. Show how you do this better than the competition.

○ Implementation = supporting information to prove how all of this will be done in reasonable terms (like SMART goals)

Target Market:

- Do people really still think that EV's are slow?
- Make sure graphs are well defined, clear, and relevant (include units of measure with numerical values.)
- All data should be backed up. Sources should be cited discretely in the slide itself, in the notes section, or on a reference slide.

Competition:

- Explain the basics of your competitors. How are they different from you? What is the main draw to their product? Not too much detail, just enough to give an idea of who you compare yourself to.
- Consider using a map like the examples below as a visualization.
- The values on the axis/quadrants represent the key factors in the industry.



POSITIONING MAP ON THE LUXURY CAR MARKET

Product:

- What problem does your customer have that your product solves? How does your current solution solve that problem?
 - If you mention a partner company, make sure to describe who that partner is and what they do. Be brief, but don't leave you're saying.
- Implementation:
- Dive further into supply chain. It seems to be a major current issue in the industry.
 - How many companies supply the computer chips you need?
 - What is the battery belt?
 - The marketing promotion at events was good.
 - You don't need to spend as much time on worker time remote vs in person. It's in the prompt, so you're correct to mention it, but save the details like remote apprentices and spend more time on the major topics – the things that make break your presentation in duration. Maybe mentioning training practices, for example.
 - At a glance, the 5 year plan looks good! Make sure it's thorough.
 - Backup the 1000 car unit production number. Why 1000?

Feedback 4/24: Rough draft of presentation and talking through flow.

Logo I just have a picky critique....

Target market units consumer report survey
Are these the same units shown in the earlier slides?

I like the comparison to the old motor but tie it back to the customer Product overview Needs more connection to the previous slides

Marketing strategies slide says product overview

How does the charging WiTech technology apply practically to raceways?

"Marketing Strat" Add "egy" ☺
Too many pictures on the one marketing strategies slide
How many people attend these events? Give numbers on the influence

Not sure how I feel about the Gantt chart...

Dr. Gala knows a person in automotive supply chain

Feedback 4/26: Final draft presentation

Aesthetics:

- Some small fonts – try to keep to the same fonts and font size consistent across all slides
- Product overview – talk less to the specific words on the slide but more about HOW what's on the slides helps your point
- Supply constraints – label the diagram...?
- When verifying whether you answered the question sufficiently, still sound confident.

Well Done!

LOVE the competitor slide. Very clear feature comparison.

VERY clean slide transitions

Contact Questions:

- Marketing Strategies - What geographic section would you focus on in promotional events? Why?
- How do you connect the racing simulations to real purchases? Is there an overlap in people who race SCCA and people who do racing sims? If the end goal is brand image, how do you convince a sim racer that the KRT EV is a racer in real life that can be purchased and not just a cool option in the sim?
- How long does a charge take with WiTech charging stations?
- Implement Plan: How do consumers get the batteries back to the recycler? It will need to be easy and convenient for the consumer to get it back to you if they just won't do it. You probably don't have many physical locations with a quantity of 300 units a year. So do you ship the battery packs for return? Do you have partners who can get it back to you or recycle locally?
- Gantt chart planning throughout the process?
- Supply Constraints - Make a slide listing outsourced and in-house manufactured parts.

Abri's Buiz notes

Thursday, March 30, 2023 5:39 PM

Initial Research Questions:

1. Define target market (Demographics, Psychographics, Behavioral, Geographic)
 - a. Who buys your cars? Individuals? Groups? Businesses?
 - b. Why do they buy from you?
 - c. What are some pain points they currently have?
 - d. What do they like best about the current market options?
 - e. How to they respond to change?
 2. Define their ideal customer market
 - a. How much does the average car cost to produce? What do they sell for?
 - b. What kind of race cars are most popular? Why?
 - c. Are there geographic "hubs" in racing, race car production, and race car purchasing? If so, what draws people to these hubs?
 3. Market trends
 - a. What new power source options are being tested currently? What are the pro's and con's to these options? Have they been tried before? Did it work? Why or why not?
 - b. What options offer the greatest opportunities for expansion into other markets or iterative technologies?

NO
50

Company in US trying to bring back consumers from Asian markets Could play towards legacies (nascar, ivy) and personalization (hand

Keep in mind creativity, need an angle that judges haven't heard/seen

Some cool markets to talk into could be FT Cars Convention, Global Climate Summit COP 28, or taking the angle of being a startup in Europe taking over the lux industry like NIO, or you could go the route of a company at an event like Le Mans.

startup in Europe taking over the lux industry like NIO, or you could go the route of a company at an event like Le Mans

<https://www.ravin.ai/blog/automotive-conferences-2022>

^^more conventions if we want to go that route

Sell direct to consumer:

- Can ensure that their products meet these high standards and offer a unique buying experience that aligns with the brand's values
 - Not many others allowing for greater flexibility and more responsive marketing strategies to tailor better to the consumer
 - DTC is becoming increasingly popular in more and more industries, OEM's will eventually have to adjust or they will fall out of the market scene
 - a lot of OEM's are still not fully utilizing DTC as a way to gather data and information about what consumers want, and lastly manufacturers like VW are having to start their own DTC programs and gather data. With DTC you don't have that issue
 - Why is data so important? bc regardless of selling a car whole or just technology, you being a smaller company don't have a bt of hacking to fall onto if you have a bad sales year. So keeping up with the trends and consumer demands is vital to making sure companies and/or consumers will keep buying
 - CTC and Dealerships also have a bad rep, as you will get scammed or ripped off, as well as being shamed for the market valuedrop from car the moment it is driven off the lot. Likely not as big of a problem with high end cars, but still note worthy
 - Most importantly though, without the tag of an OEM company, you can more easily make a name for yourself in fields outside of just retail
 - Challenges you may face selling DTC are...less financial backing than our competitors (OEM), more investment into marketing distribution, and customer support infrastructure, and having to build new trust with consumers and "brand name"
 - Challenge 3 is not the worst problem because of the booming DTC market, there are a lot of investors, but you still have to enivrone them and keep up relations
 - Challenge 2 can be overlooked as OEM companies built on engineering capabilities are now having to invest in greater in customer experience, which for most companies is uncharted waters
 - Challenge 3 is likely the most difficult hardship new DTC companies will face, even with the use of social media, building trust with consumers takes time and can easily be destroyed in the beginning like u GPA

Sources

- <https://www.mckinsey.com/~media/mckinsey/industries/automotive/20ndt/20assembly/our/20insights/a/20future%20beyond%20brick%20and%20mortar%20disruption%20in%20automotive%20retail/a/future-beyond-brick-and-mortar-disruption-in-automotive-retail-vf.pdf>
 - <https://hbr.org/2021/11/how-direct-to-consumer-brands-can-continue-to-grow>
 - <https://www.mckinsey.com/capabilities/growth-marketing-and-sales/our-insights/the-new-key-to-automotive-success-put-customer-experience-in-the-drivers-seat>
 - <https://www.forbes.com/wheels/advice/car-buyers-want-a-hybrid-of-online-and-offline-shopping/>

Implementation:

- As stated above, without the tag of an OEM brand, you can manufacture a model exactly how you envision it
 - Example: Say you are an OEM manufacturer, but you can manufacture a model with, this new name you can implement new features and get rid of any stigma around old features. Implementing new demand based branding by telling it directly through its website/app, add-ons, and customer-centric services. While also keeping consumers experience by allowing them to do all paperwork online.

plementation:

- As stated above, without the tag of an OEM brand-name, you can more easily make your product exactly how you envision it
- Example: Say you are an IC company switching to make EV cars under a new branch, with this new name you can implement new features and get rid of any stigma your old cars had. Implementing new demanded features like selling directly through its website/app, addons, and customer-centric services. While also keeping around old features such as test drives and car viewing that consumers still want. You can also offer renting for lux cars that most people can't afford normally, while increasing consumer experience by allowing them to do all paperwork online.

Structures Sources:

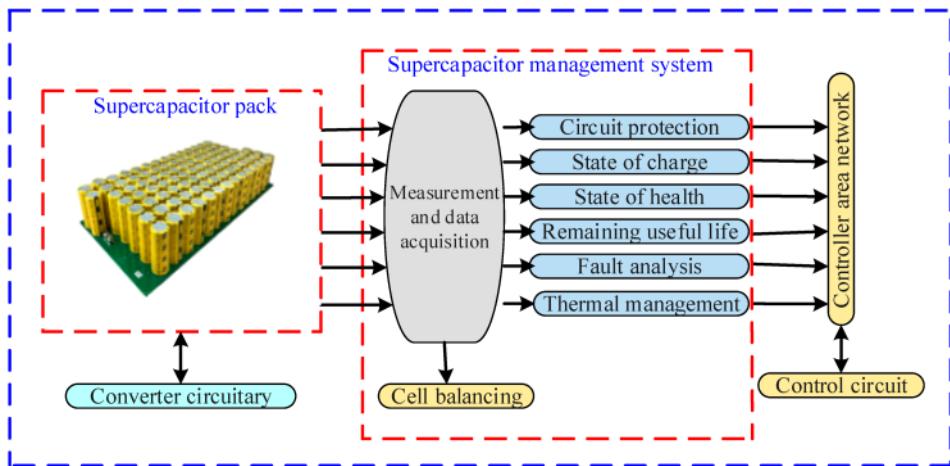
- <https://www.solarenergy.org/lithium-ion-battery-recycling/>
- <https://www.vice.com/en/article/xpked/when-telsa-says-it-recycles-100-of-its-batteries-what-does-that-mean>
- <https://www.bcg.com/publications/2020/case-for-circular-economy-in-electric-vehicle-batteries>
- <https://www.sciencedirect.com/science/article/pii/S2666202722001616/bbb0001>
- <https://blog.uscusa.org/haniro-ambrose/the-second-life-of-used-ev-batteries/>

Pacemaker safety
<https://www.richter.com>

- <https://wtnrcity.com/newsroom/blog/your-pacemaker-is-safe-with-wireless-ev-charging>

Heily's EV BUSINESS

Thursday, May 4, 2023 5:35 PM



*** have employees identify circuit protection, state of charge, etc. (appendix)

<https://aftermarket.zf.com/remotemedia/new-structure-2020/zf-aftermarket/pdf-s/training-high-voltage-vehicles-200-006-en.pdf>



Britt's Notes

Thursday, April 6, 2023 8:31 PM

The Basics of Supply Chain: <https://www.investopedia.com/terms/s/supplychain.asp>

General Questions

- What % of total production inputs are recycled materials versus raw materials? (This is important especially since using recycled materials is one of your points.) If not many people recycle, why is this? How can you incentivize them to do more?
 - Examples: Recycling: Redwood Materials and Tesla/Ford/Volvo; Repurpose Energy
- How do consumers get the packs to the recyclers?
- Where does your company fall in this supply chain?
- If refiners are the bottleneck, how much do they produce annually? Is that enough to sustain your current and projected demand? If not, are there any alternatives?
- To dive extra deep, take a look at the geographical region of the raw materials sources and refiners locations. Why are they there? What characteristics does that place have that other places don't have? Is there anything they lack that you could provide to them? Is there any way you can leverage that knowledge when choosing partners or negotiating resources?
 - Geographic Sources of these materials: <https://elements.visualcapitalist.com/ranked-top-25-nations-for-battery-metals/>

Supply Chain Trends:

- Increased automation technology
- Influence and implementation of AI and augmented reality
- "mineral market" leaders in refinement and extraction
- US government involvement in mineral market and "critical minerals"
 - <https://www.usgs.gov/news/national-news-release/us-geological-survey-releases-2022-list-critical-minerals>
- Trends in the Energy Market in general (other products that use the same raw materials as EV lithium-ion batteries)
 - <https://www.iea.org/reports/the-role-of-critical-minerals-in-clean-energy-transitions/mineral-requirements-for-clean-energy-transitions>
- Circular Economy

General Research:

EV (lithium-ion battery) Supply Chain Basics:

<https://rmi.org/ev-batteries-101-supply-chains/>

<https://www.nrdc.org/bio/jordan-brim/electric-vehicle-battery-supply-chains-basics>
Ironic: "As a result, the metals mining industry is the [largest single source of toxic waste](#) in the United States."

Raw Materials: lithium, nickel, cobalt, manganese, and graphite.

Bottlenecks: <https://www.iea.org/reports/the-role-of-critical-minerals-in-clean-energy-transitions/executive-summary>

Data and Statistics: <https://www.iea.org/data-and-statistics>

Marketing to Companies

Idea: be MIT of Motorsports

Competition:

Implementation:

Manufacture a base model as a part of the value chain

Selling base models to companies that could customize to consumer preferences

Also doing R&D for companies to test new technologies before they hit the production floor

Create [IMSA](#) all electric class? Sell chassis to regulation specs that race teams could purchase and then modify. Could also offer the R&D to racing teams on the side.

Marketing to Individuals

Idea: custom garage for "weekend racers"

Competition:

[Ariel Atom](#)

[Radical Motorsport](#)

[SRF-E](#) (built specifically for SCCA)

"In the Fall of 1985 SCCA Enterprises, a division of SCCA Ventures, was founded to take over the manufacturing and production of the Sport Renault (an inexpensive spec car for the club racing scene.) SCCA utilized SCCA Enterprises corporation to take over the Sport Renault (our original spec car) and everything was brought to Denver, Colorado and SCCA Enterprises as we know it began.

Our original car, the Sport Renault, was introduced in the early to mid 80s as an affordable entry into the sports racing world (originally being developed and manufactured by Renault/JEEP Sport.) In 1989, Renault changed direction and the SCCA made the decision to replace the original Renault drivetrain with a 1.9-liter engine and five-speed transmission manufactured by the Ford Motor Company, eventually changing the Sport Renault (SR) name to Spec Racer® Ford (SRF).

In 2013 (because of declining availability of engine parts) we announced the Spec Racer® Ford Gen3 (1.6 Liter Ford Sigma motor) under the supervision of Technical Director Mike Davies. Since the launch of the SRF Gen3 we have successfully completed over 500 Gen2 to Gen3 conversions. Today, the Spec Racer® Ford class is the #2 subscribed national class with over 35 years history producing top notch, affordable and safe racing cars."

Substitutes:

EV conversion kits ([EV West](#)) - also [these](#)

Implementation:

Provide the labor and the chassis for EV conversions?

Reasoning:

Makes most sense for IC to EV because the EV market is just beginning to diversify in the early stages of the product life cycle

Marco's Notes

Thursday, April 13, 2023 2:00 AM

Vd

Lower CG than competitors due to battery pack
Helps around corners
Keeping RWD only to keep performance
LSD For Performance on track course

Motor Technology

Radial motor technology no bueno Axial Motor more efficient better packaging
Lighter Weight
Increase in power density

Battery Technology

Pouch cells run cooler due to lower impedance
increased surface area, heat dissipates better than it does with cylindrical cells

Metric is C-rate, How much of its capacity can be used in 1 hr
6C can us 6x capacity for 1/6th the time

46800 Li-ion Cells

333 WH/Kg No Silicon, Aluminum,
118 WH

Standard 2170
18.23WH
Up to 300 WH/Kg

Working with Tesla and Panasonic to further develop the 46800

<https://www.dnkpower.com/lithium-battery-4680-vs-18650/#:~:text=The%20cycle%20life%20of%20a,on%20the%20nature%20of%20charging.>

<https://insideevs.com/news/598656/tesla-4680-battery-cell-specs/>

<https://history-computer.com/4680-battery-cells/>

2023 EV Bis Notes

<https://www.eetimes.com/electronic-starter-alternators-power-hybrid-vehicles/>

Regen Braking Efficiency

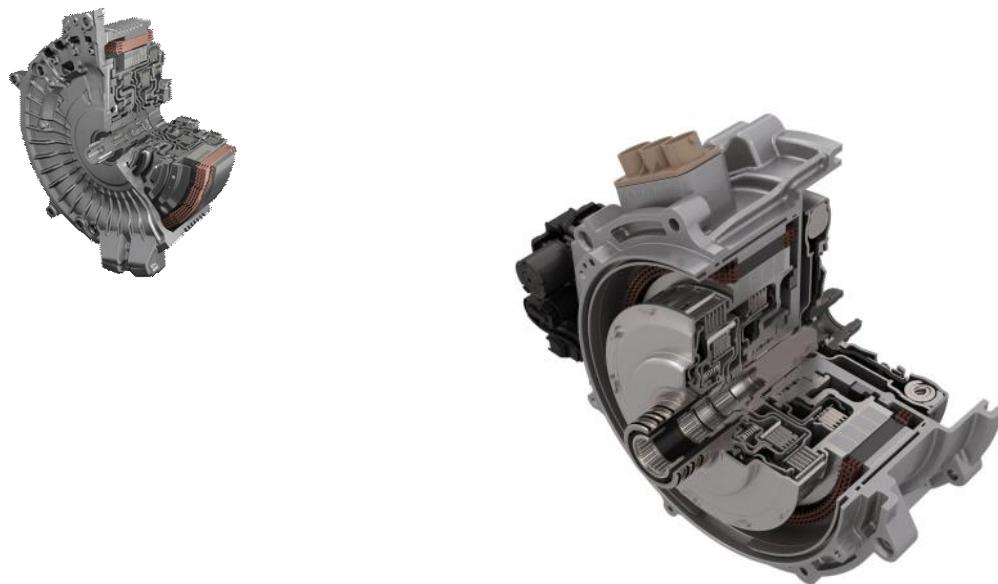
Sarter/ Alternator Motor Selection

Super Cap Selection

Toyota 1.6L 3Cyl

<https://impactful.ninja/the-carbon-footprint-of-biodiesel/#:~:text=One%20gallon%20of%20biodiesel%20emits,have%20various%20environmental%20benefits.>

Bio-Fuels produce less carbon emissions



Sam note ;)

Wednesday, May 10, 2023 1:47 AM

Sam Presentation Questions:

only look at 9:00 am Wednesday

We offer:

- Racing engine that runs on alternate fuel
- Exposure
- Brand image

VP

- Develop bacteria fuel
- Interest from companies to develop this fuel
- Partnered with IMSA

Notes for shit we need to add:

- What we offer?
 - o Distinguish our brand from every other performance hybrid company
- Company ROI
- Initial Investment Usage (present)
- Explain what is wrong with the partner company and how the partnership of us and the company will benefit and bring something new to the table
- Walk them through our processes
 - o How does the fuel work
 - o What does race day look like
 - o What is our facilities like
 - o How do we make decisions
- Sales goals
- Breakdown Primary and Secondary sources of income
- Cost development breakdown by year, broken down by source
- Cashflow development
 - o What are the breakdown
- Investor Return
 - o Interest rate and profit share breakdown
- Supply chain breakdown step by step (flowchart)
- Show the flowchart of breakdown of an initial investment and where it goes
- Set the stage in the beginning a little to how and why something is worth investing into
 - o Why hybrid, market growth of hybrid? Insert sustainability

What do that look like:

- Our research and development of our power train, with VP will provide them with more research into a different power train application and develop a higher energy dense fuel
- They also gain valuable brand exposure as they become the official race fuel of the KRT-S
- We want to partner with them bc we think they share the same commitment to performance as we have at our company

We

- Partner with company bc known brand
- With experience in field

Buiz IC Feedback

Thursday, June 8, 2023 11:31 AM

Abri's Written Feedback from IC COMP

**these are my notes of the overall feedback they gave to all teams, just overviewing what they saw and liked vs disliked*

- Design Matrix, show design considerations
- Liked the detail of knowledge, wanted more sources
- They see themselves as stakeholders/board of directors
- For design finals, take time, breathe, smile, they wanted more interactions
- Show the decision process
- Be excited and enthusiastic about what you are presenting
- Advertisement before cars are launched, marketing timeline
- "smart consumer" your consumer is not dumb and you should not treat them as such
- Furthering they can easily fact check your statements like the ethics in cobalt mining
- Thought hybrid over full EV, e-fuels, or biofuels" was the best route
- Ethics of your company is big, address it
- Look at smart briefs, tech briefs, white pages for information on the topic
- Have shown "commitment to the future", where the company will be in 2028 or 2033
- "house of quality" for the design matrix
- Make sure market has REAL incentive
- Be wary of using team colors in graphs, can be confusing to have multiple different shades of blue and for finals, might be hard to see outside
- Like colors like red, yellow, green to show good, bad, okay because its standard
- Like cheesy marketing strats bc its memorable and funny
- Liked having students present themselves as "CEO, COO, CMO, etc" so that they knew who to talk to for questions
- Reintroduce yourself at the end and THANK THEM
- Other teams could be your competitors instead of industry cars and you can pull data on them from last year's competition results
- Being memorable is more important than having a good presentation (ur only 1 out of 120)
- Some memorable things they say were being completely exact to prompt, word for word, having humor, and having a well thought out appendix
- Like being given a pamphlet or booklet for finals, but make sure if you have one it doesn't distract from what your presenting but rather enhance it
- A good pamphlet had blown up images of graphs that may be hard to read in-person
- They like you catering to all the senses as much as you can, including sounds like car revs
- Present to new members to get their feedback on things u may have missed or that may be confusing for those who don't know your car inside and out
- Address why the board would even want to make this change
- Don't spend a lot of time on technology upgrades
- Make sure to mention in first/second slide, what your change actually is ie. Hybrid, electric, e-fuels
- "swat" analysis can be helpful if used correctly
- Add slide number to slides
- Mention investment, price point of car, maintenance fees, fueling fees, justify
- LOVED the idea of a jeopardy board/FAQ bc they have script questions and often are reading through those trying to find one
- 9:30-10:10 is the ideal time :D

Buiz EV feedback

Thursday, June 15, 2023 11:43 PM

Business Public Feedback Notes

Market segmentation

Compare to FSAE cars

Make Target Market make sense

Identify specific factors

Prepare earlier

Present to new members,

Scripts are bad

Shark tank

Enthusiasm

Specific Budgets for everything

Read the prompt religiously

Be unique

EV pres shit

Pamphlet earlier

Buis will be harder next year

There might have been a prompt FAQ?!?!

Kvaser blurb

Wednesday, May 29, 2024 5:33 PM

An article with a couple of pics for stating how your team uses the Kvaser product with your vehicle

- For joint marketing purposes
- Publish the article on our web site and social media

From <<https://mail.google.com/mail/u/0/?tab=rm&ogbl#search/kvaser/FMfcgzGxRdvsPBVbZLgqXsBwtnWtBcXv>>

Kvaser's donated equipment has been invaluable to us as this season as we bring up and continue to test our 2024 EV. We use the Leaf Light HS V2 interfaces along with Kvaser's CAN King software to view our vehicle CANbus and monitor ECU signals, as well as with Kvaser's CANlib SDK integrated into our own custom scripting software. Kvaser's Database Editor software has also been invaluable as we iterate and expand our CAN database