

PDM + SW25 Transition

Sunday, June 29, 2025 7:10 PM

Features we want to add:

- CAD part numbers = cost part numbers
 - o Underscore - carnumber with the cost PN
- Need to check with what parts are missing, worth losing some points for accuracy

When changing PDM, What needed:

- License is fine
- Need to save backup of everything in PDM
 - o Can archive PDM
- Get a UPS for the server
 - o In case power goes down while the team is in Michigan
- Licenses for other people on the team
- Just download 2025 PDM installer, update PDM
 - o Need to clarify
- Should have infinite amount of users for Tailscale
 - o Headscale, open source, free
 - o Could use an AWS server
- For access, check to use an email with tailscale with another gmail
 - o Give access to design leads
- Location of server
 - o Staying at Emils place
 - o Need to think about permanent solution
- Server computer need to download PDM 2025
 - o Leads need to download the PDM plugin when downloading SW25

When changing to SW25, What Needed:

- Just need the codes for the installer
- Sunday Night Next week Install and setup day for SW
 - o Installing the new PDM to the server
 - o At least one person needs to install SW2025 on their laptop to check
 - o Setup tailscale, with new gmail
 - Check users
 - o Warn mass check in on Friday, full design freeze and archive
 - o Setup for new SW25 on Sunday

Mihai Need Hands?

- Access to cat house lol @emil

Pre-KS9-Design tasks

Monday, July 21, 2025 10:08 AM

- Fix trailer roof leak (more caulk, investigate further where it's coming from)
- Replenish supply of trailer spare tires/leaf springs, if the spares we installed on the way down from EV comp aren't permanent solutions we should buy permanent replacements
- Take stock for things we'll want in design season and beyond (brake line fittings, connectors, hardware, etc.)
- Try to recover lost/misplaced tools
- Unload & organize trailer
 - Unload from trailer things that are normally in shop (e.g. main toolbox cart)

—Admin Meeting Notes—

Sunday, July 20, 2025 4:47 PM

07/20/2025 Admin Meeting

Sunday, July 20, 2025 4:47 PM

- Expectations for Admin Meetings during the year
 - o No specific car stuff will be decided unless specific topic is brought up
 - o Topic list can be added throughout the week
 - o Meeting will be frequent, every week across the year
 - o Design leads meeting will aim to be more of an update for overall progress and specific car questions
 - Interchanges with CAD Spins
- What needs to happen to support Adi and Garrett as Project Management Team
 - o Frequent meetings with Val?
 - Meetings with Val guiding the team
 - o Meetings with all leads across from Design?
 - Bi Weekly meetings with leads
 - Talk with leads about timeline during the same Design Leads Meeting
- Faculty Updates with Richard
 - o Form submitted to Paul
 - o Meeting with Santana then Paul
 - Meeting with Santana, Wed @4:30 pm
 - Mainly about combustion and setting up a board of advisor admin presents to each month
 - o Card Access for Summer and Fall?
 - Contact for form for card access before school starts, starting soon
 - o Student Involvement Fair Slot
 - We are registered
 - Need to talk to Randall about if we can pick our location
 - o If school can Sponsor / Get HV Training for members on the team
 - Reach out to Paul and Matthew
 - Contact Fire safety people
- Financial Updates with Richard
 - o When talking to Tyler about it?
 - Pester Tyler
 - o Dates to lookout for presentations
 - Alumni released at beginning of school year
 - Usually in September
 - Will get from Tyler when first SABAC presentation is
 - o When does audit start and ordering end for summer
 - o New account
 - Can have three account holders potentially
 - o WEX Pins for renting the trucks
 - Pls richard
- Outreach Update with Varun
 - o Strategy for getting people done with
 - Goals for this week to reach out to NDT and ATS
 - Need to email through the teams email
 - Branding and Sponsorship Package done sometime this week
 - Need to contact Barnesville about dates
- Vehicle Dev. Update with Sam
 - o KS9 Design Meeting 1
 - Goals is to get macro goals and comeback next week with subgroup level goals
 - Template meeting either end of this week, start of next week
 - o TJ and Chance working to get electrical side done soon, mechanical push for this week as well

- Get Dom for the inside of the electrical - mech part of the car
- Michelin is okay with us testing, need to schedule but follow with car
- Timeline and Calendar for the Summer to Fall
 - Outlook Calendar

07/29/2025 Admin Meeting

Tuesday, July 29, 2025 7:36 PM

Events Happening on the Team Right Now:

- Michelin Test Day- 16th and 17th
 - o Try to keep number of people low for resources across
 - Need to find way to provide for food
 - Have people try to get their own lunch for Michelin and food
 - Make sure we get ESO's up there that aren't driving
 - People trained to drive the truck
 - o Can we do two days?
 - Running low on people and school starts so soon for Sunday
 - Get a camping site up there possibly?
 - o Insurance?
 - Richard getting with Tyler about doing a Waiver
 - o Itinerary
 - Getting there very early
 - Stay on site throughout the day
 - Try to keep group small to make testing efficient
 - o Clarifying Questions
 - Do they have a waiver?
 - How many people can come?
 - Camping at the site?
 - Any restrictions for EV? Work
 - WEX Pin for truck reservations

Consolidate all dates
for all the days we
need the truck rented

Faculty Update:

- Try to shoot for morning meeting with Paul,
 - o Thursday or Friday this week
- Santana: semester over, want to start meeting with more frequently

Project Management Update:

- Lead Sync
 - o Talk about classes for intro
 - o Show how to use project tracking
- Developing task buckets
- Need to develop project timeline work to get design restrictions

Business Update:

- Sponsorship Package is Complete
 - o Will send out to team soon
- NDT were willing to do Wednesday or Thursday
 - o Will try to do Mid- Late September for a visit
- Board of Trustees the 12th,
- ATS Visit for the competition teams the 18th
 - o Want to specifically visit the motorsports team
 - o Email Jim about wanting to get a specific time for when they will arrive
- Develop general calendar for team events:
 - o Alumni Night
- New member meeting:
 - o Monday - Tuesday of the next week, Marietta Campus
 - o Wednesday same week, Kennesaw Campus
- Barnesville

- Try to make alumni funded for the event
- Clarifying Questions
 - Cost for rental across both days
 - What days available
 - Check schools / teams available for the event
 - How much did they spend going last year
- Michelin Shootout
 - September 24 (Need to double check)
 - Truck rental
 - Early notice for members that need to go and can go
 - Leave room for new members interested
- Talk to Rivian to host a resume night
 - Come and do a resume review

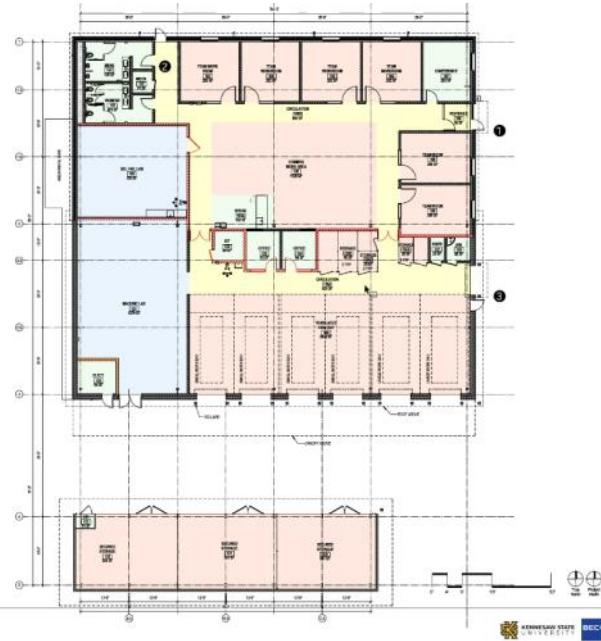
Direction of the team

- College directive of national prominence thru competition teams
- Metrics Paul will report
 - o National Placement
 - o Overall Membership, Core Membership
 - o Funding
- Paul is going to ask for a report from each of the teams
 - o In order to track and report metrics
 - o Annual report
 - o Needs to be detailed report, like we are talking to someone who doesn't know who we are
 - o Some parts of SABAC report is moving to this one
 - o They want to know challenges, achievements
 - o Financial Report
 - o Will be used to distribute funding among comp. teams
 - Point system based on report
 - o Would be due end of Sept.
- Hornet Hub will open March 2026 (tentatively)
 - o Motorsports will be moving to the new building
 - We will know when we are moving definitely end of the semester
 - o Set up with 2 bays, since we have 2 chassis
 - o Dyno will remain at 10
 - NOR will be moved to HH, Dyno will be our space
 - o Common Area will
- A technician will be hired just for the competition teams trained on all machines to guide and assist manufacturing parts
- School will be promoting competition teams thru classrooms,
 - o Make sure website is updated
 - o Promote thru events
 - Pumpkin Launch
 - RSO Day?
- They will ask for breakdown of ideal budget
- School is working on bringing sponsors for both overall and specific competition teams.
- Paul is now the Dean of RSOs.
 - o Anything related to the school needs to have Paul copied
- Document Officer transition
- School wants to push more faculty advisor involvement
 - o Wants them to meet with team leaders once or twice a month
 - o How often we meet w/ faculty advisor will be included in the annual report
- We have to request access to Q Machine Shop
 - o We will be given a process to request access
 - o Part of technician responsibility is to get machines fixed if they go down
 - o Waterjet in O is getting certified to get fixed
 - Waterjet is not getting moved to HH
 - Either staying in O or moving to composite lab
 - New composite lab will be shared
- Design Review with faculty to get feedback
 - o At the end of design period
 - o General faculty in ME/MET
- There will be a general meeting with all comp. teams sometime in Sept.

OVERALL FLOOR PLAN

Legend:

- Fire-Rated wall
- Team Spaces
- Shared Fabrication Spaces
- Support Spaces
- Circulation
- 1 Main Entry/Exit
- 2 Secondary Entry/Exit
- 3 High Bay Material Loading/Offloading



8/7/2025 Manufacturing/Composites Meeting

Wednesday, August 6, 2025 10:32 PM

Meeting notes PLEASE-- in one note

Expectations for safety

- Safety Officer organization
 - Proper safety rules, people get in trouble quickly when not following
- Differing for Machine shop and Composites shop
 - (not worried for the people in this meeting, just making sure we stay vigilant)

Training

- Do we have lists of people we want to train on machines?
- Process of training?

Timeline-- Line along with classes?

Parts for manufacturing intro
SUS Bushings, Aero inserts, Spherical cups etc

Share youtube for some manufacturing stuff plz

Can some of our classes for composites be sanding blanks/ floor pan layups
(similar to last year?)-(good foundation skills)

Example CNC tut- I remember them from Highschool

The screenshot shows the homepage of the **TITANS OF CNC** website. At the top, there's a navigation bar with links for **SHOP**, **ACADEMIES**, **CNC EXPERT**, **OUR STORY**, and **BOOMBASTIC '25**. A search bar is also present. Below the navigation, there are two large promotional boxes.

SolidCAM Maker Version: This box features the **SolidCAM** logo with a stylized flame icon. It includes the text "SOLIDCAM MAKER VERSION" and "Industry-Leading CAM Software". A "Register for FREE" button is at the bottom.

TITANS OF CNC: Academy Instruction Manual: This box features the **TITANS OF CNC** logo with a stylized arrow icon. It includes the text "INSTRUCTION MANUAL" and "Step-by-step how to use the Academy and implement its curriculum.". A "FREE Download" button is at the bottom.

[Free CNC Training Courses | Titans of CNC](#)

08/18/2025 Admin General

Monday, August 18, 2025 6:59 PM

- Every week need an update on the following items, goal is for me to not personally following up on any of these items
 - o Barnesville
 - o Waiting to hear back on availability in November
 - o Ordering
 - o Talking to Katie on how she can do the big Order
 - o Faculty - Santana
 - o Delayed at least a week
 - o Faculty - Upstairs
 - o Dean basically confirmed we are going to the new building
 - o Can move after EV Competition
 - o Faculty - Manufacturing
 - o Earl talking with machining on getting machines fixed
 - o Stricter on getting new and returning member dues
- Michelin Testing debrief - admin given timing
 - o Monday @7pm
- Inter changing Lead General / Sync and CAD Spin
 - o Pushing to have during the afternoon on Friday
 - o 4/5 pm
- Try to meet this week after 5 with Seth about managing his internship

09/05/2025 Admin General

Friday, September 5, 2025 3:53 PM

List of meeting topics

Update for Big order 1, how to proceed and approve orders for this

Clarification for roles on each part of the team-What Sammy needs from Admin/leads

Michelin Shootout, Timeline and Logistics

Varun topic-Michelin stuff

Team truck status for Training/Michelin

Status on getting team accounts passed over
(^also on EHS side, they have Mihai as main contact)

Lead Sync update

Notes: lil yap about lead hodgepodge
Give new members/leads things to do and hold them accountable
Wasim more purview in VD subgroup- help support Sammy
Checkpoints around Barnesville and CDR for VD subgroup- car first

Big order 1: not as much as we thought from foundations, Airtech has gone through- going through manufacturing's stock for training-- will wait on Midwest order for free shipping
Will try to send out big order 1 on Monday 9/8 After main

After Monday meeting manufacturing leads + admin for finalizing order
ATS and NDT meeting is being scheduled

Clarification for roles:
PM: constant attention to projects and systems; enable us to support more
Need to facilitate communication for potential projects
Hold more accountable to stuff, Seth with VD/suspension, David with process
Strong process for design, no half court shots- will get scrutinized and scheduled

Richard with faculty
Earl is hard to make time with, very in-person no online contact- meeting with Paul through teams, Katie in person now happening more
More to happen within O shutdown, HAAS training and process
Varun-"sit there and look pretty"

--Ben/Carter/Stone as Chief mechanic- IC will get support for going year to year
Will facilitate a conversation to get more going
Purview- how dedicated are they, what can the team do for the car-how to transfer over knowledge

Michelin-Sept 27th
IC hasn't really been going at all, need to get the car working and going-will not be going to Michelin
EV will go to Michelin-20 people
Use event to get car running and get new members see the car driving
GET CAR DRIVING- new fittings for WP, IMD, BMS, etc
Richard at Homecoming, Varun at Michelin as Pres/VP
John tech car Sept 20th with Micah, David, Dom, Wasim-- they tech throughout week before
EV Active for Michelin as well
No school truck for Michelin, John truck?
Michelin stuff posted in Monday meeting- waivers are needed for Michelin(roster)

Pack a lot earlier and better+ New list
Richard for official organization of trailer before Michelin

Michelin Roster:
Varun
Emil
Sam
Truck Driver
ESO
Composites - 2
Business – 2
VD - 3
EV Pwt - 3
LV - 3
Aero - 2

Go up Friday – Campground rental again, \$30 Dues

Get accounts transferred over from Steven and Tyler
Bank accounts, Paypal

Need to make sure new members that have just passed actually get in the discord

09/08/2025 Big Order Machining Meeting

Monday, September 08, 2025 9:07 PM

Goal for Big Order 1, get enough machining supply for training and early manufacturing items:

Intend to train 3 – 6 people that know all the machines

- Manual Lathe
- CNC Lathe
- CNC Mill

Manual Lathe:

- [Suspension Bronze Bushing for Bell Crank](#)
- Aero Strut Inserts

CNC Lathe:

- Spherical Spacers
- Spherical Cups

CNC Mill:

- Front Sprocket
- Upright Pickup

Training Items:

- Lathe Inserts
- Lathe Stock
 - Bushing Stock
 - Control Arm Spherical Cups
 - AL 6061 Rod Stock

Team Name: Kennesaw Motorsports	Date: 16 August 2025	Qty	Price Per Unit	Total	URL for Item	Priority
Item						
1	Max UCHT31314AL Lathe Inserts Pack of 2	2	\$49.95	\$99.95	A	
2	Max UCHT31314AL Lathe Inserts Pack of 5	2	\$24.95	\$49.95	A	
3	Max CCHT31314HT Lathe Insert Office on the web Frame	2	\$39.95	\$79.95	A	
4	Max CPH 1000-1700 CPM Predator Spuds 10mm Corundum Stone and Alum-Bal Discarver MP404150	1	\$99.99	\$99.99	A	
5	ROKIN 44-78 inch Backhoe Blades 1/16 TPI 44-7/8" x 17" x .032" (2) in TH Replacement for Ditch Witch Milwaukee Portable Backhoe 2-Pack	1	\$21.99	\$21.99	A	
6	ROKIN 44-78 inch Backhoe Blades 1/16 TPI 44-7/8" x 17" x .032" (2) in TH Replacement for Ditch Witch Milwaukee Portable Backhoe 2-Pack	1	\$21.99	\$21.99	A	
7	ROKIN 44-78 inch Backhoe Blades 1/16 TPI 44-7/8" x 17" x .032" (2) in TH Replacement for Ditch Witch Milwaukee Portable Backhoe 2-Pack	1	\$21.99	\$21.99	A	
8	ROKIN 44-78 inch Backhoe Blades 1/16 TPI 44-7/8" x 17" x .032" (2) in TH Replacement for Ditch Witch Milwaukee Portable Backhoe 2-Pack	1	\$21.99	\$21.99	A	
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10	ROKIN 44-78 inch Backhoe Blades 1/16 TPI 44-7/8" x 17" x .032" (2) in TH Replacement for Ditch Witch Milwaukee Portable Backhoe 2-Pack	1	\$21.99	\$21.99	A	
11	ROKIN 44-78 inch Backhoe Blades 1/16 TPI 44-7/8" x 17" x .032" (2) in TH Replacement for Ditch Witch Milwaukee Portable Backhoe 2-Pack	1	\$21.99	\$21.99	A	
12	ROKIN 44-78 inch Backhoe Blades 1/16 TPI 44-7/8" x 17" x .032" (2) in TH Replacement for Ditch Witch Milwaukee Portable Backhoe 2-Pack	1	\$21.99	\$21.99	A	
13	ROKIN 44-78 inch Backhoe Blades 1/16 TPI 44-7/8" x 17" x .032" (2) in TH Replacement for Ditch Witch Milwaukee Portable Backhoe 2-Pack	1	\$21.99	\$21.99	A	
14	Max UCCT31314AL Lathe Inserts Pack of 2	2	\$11.95	\$23.95	A	
15	Max UCCT31314AL Lathe Inserts Pack of 5	2	\$18.95	\$37.95	A	
16	Max UCCT31314HT Lathe Insert Office on the web Frame	2	\$39.95	\$79.95	A	
17	Max UCCT31314HT Lathe Insert Office on the web Frame	1	\$10.99	\$10.99	A	
18	Max UCCT31314HT Lathe Insert Office on the web Frame	1	\$10.99	\$10.99	A	
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09/10/2025 Big Order Composites Meeting

Wednesday, September 10, 2025 9:27 PM

big order 2:
resin
Consumables
Equipment

Current sponsors:

Airtech - processed thru dean office/not from our own accts (\$500 deadline 9/12)

Costal enterprise - processed thru dean office/not from our own accts

3bond - 45 day shipping

(deadline halloween)

09/15/2025 IC Meetings

Monday, September 15, 2025 8:37 PM

Team met previously in June about 2V1, EV car ended as going to Michigan

IC is now going to SCCA events, Michelin, Pittsburgh and Formula South-Goal of running barnesville

Ben, Carter, Stone as Chief mechanics and will help car get running and get some people to help everything get together

Lots of stress and not a great mindset going really into KS8C, led to a lot of issues for comp readiness

To return to that, the 3 Chief mechanics know how to appreciate the IC car good and well maintained, we will keep the car and program

More numbers about budget in Admin Closed log, will get tires and have a PM overviewing ordering and member involvement

Concerns with how IC will be set with new members and newbies- shouldn't be only newbies messing with it

Coming off how IC the past 3 months, car has seemed dead. We'll meet with Grayson and more about how to continue

09/19/2025 Admin General

Thursday, September 18, 2025 4:43 PM

Michelin

Items needed bare minimum to trailer

- Car lol
 - o No acc
 - o No aero
- Pit cart
- *Low Voltage Cart*
- Tarp
- Tent
- Blue Generator

- Camp Site options
 - o Get the same campsite as the previous testing session
- Departure - Arrive at Shop by 12pm, Leave by 1pm
 - o At least trailer and Varun
- Start asking members for Michelin Dues ~\$30

Trailer situation

- Jacob D offered a truck and trailer
 - o 6x11
 - o Cover gas and his dues for the event
- Uhaul Trailer - \$135
 - o Need to find someone truck
- Enterprise Truck ~\$250
 - o Listed towing capacity is lower than the weight of trailer from IC comp
 - o Need to find someone old enough to rent
- Enterprise Box Truck ~\$450
 - o ~\$500 with Gas included

Homecoming

- Possibly Richard Trailer?
 - o Figured out by Thursday
- Garrett, Richard, New Members

Electric Car

- Provisionally New Pump is like \$300
 - o Could warranty
- During the week
 - o Mech Inspection
 - Emil to run it
 - Intend to run after Design Review
 - o Continue Testing

Combustion Car:

- Just need in a rolling state
- Ask Ben to put on slick tires
- Ask leads for members before Monday meeting to help get car in rolling state atleast
 - o Mainly suspension

Temp Check for the Team

Team Event into coming Weeks

- 29th after Monday meet, frisbee or soccer
- Oct 5th, Team BBQ

General Notes:

- Still figuring out ordering / donations from composites
- Get NDT and ATS to come out to testing for the team

Admin:

Notes made for faculty meetings? So we have records team side, can be in admin closed log

Please talk about this and let me know - Val <3
Who do you want added to the team captains in SAE?

Remove old peeps, ADD Garrett, Adi, Sammy, Richard



6' x 12' Utility Trailer With Ramp
(In-Town)

1 \$104.85

Scheduled Pickup

9/26/2025 at 12:00 PM
72 hour rental
U-Haul Moving & Storage at Roswell Street



Drop Off: 9/29/2025

U-Haul Moving & Storage at Roswell Street
900 Roswell St
Marietta, GA 30060



Damage Coverage

SafeTow®

1 \$24.00

Rental Dollies/Pads



[Furniture Dolly](#)

0

\$0.00



[Appliance Dolly](#)

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\$0.00



[Furniture Pads](#)

0

\$0.00



[Utility Dolly](#)

0

\$0.00

Subtotal:

\$128.85

[Show Estimated Taxes](#)

[Check Out](#)

Notes:

Santana and Paul to meet about IC situation (Grayson, Varun and Richard)

Going to meet with Santana later today

Michelin-----

10/17/2025 Admin General

Monday, October 13, 2025 1:44 PM

10/20/2025 Admin Meeting

Monday, October 20, 2025 3:59 PM

- Get us out of the hood per John
- Trailer/truck availability for events
 - o Barnesville deadline for Truck Rental is this Friday
 - o Garrett getting WEX Pin
 - Get Kathy to hold the Truck while in process for WEX
 - Ping Amy about where WEX Pins are for Garrett
 - o School still looking for Trailer
 - o Go through with Mihai and Bray of what had been done for maintenance on the trailer and start getting group of new members to sort through weights of the trailer
- No organization for events
 - o Alumni Presentation issues
 - o Future Fest and Touch-a-Truck
 - Discuss and plan in earlier meetings leading up to events
 - Too late of a notice to be able to take action
 - More regular/established admin meeting
 - o Senior Design Expo (December), Barnesville (November)
 - o Make sure before event, acc is dropped out of the car
- IC alumni presentation for next year
 - o Be ready for going back to michigan questions
 - 2 years to go back (do 1 full yuear of the current plan)
 - o Worked on presentation too late for the fact that we knew abt it so early
- Timeline for info release for Formula South
 - o Sending information out to Faculty for at least a date for Formula South
 - Pre-Register teams for FS
 - Car Reveal that Monday
 - Alumni
 - Faculty
 - Sponsorship
 - Scheduled for April 10th - 11th
- Lack of Communication
 - o David O. asked to bring back Board meetings
 - Leads should be able to sit in on admin meetings
 - Bring back admin/ lead sync b4 main, closed.
 - No avenue for lead to admin/pm communication
 - Admin(6:30) -> lead sync(7) -> main (8)
 - o No accountability/no place to discuss team issues with leads
- What is Vice Presidential duties and what are Presidential duties
 - o Tasks that need to be done:
 - Event Planning
 - 1Truck and Trailer Prep
 - Who gets people ready
 - Business
 - Budgeting
 - Ordering
- Pumpkin Launch

Santana wants to meet up next week and get it over with
For greysons ic stuff

10/26/2025 Post Lottery

Friday, October 24, 2025 4:20 PM

Hear and Now:

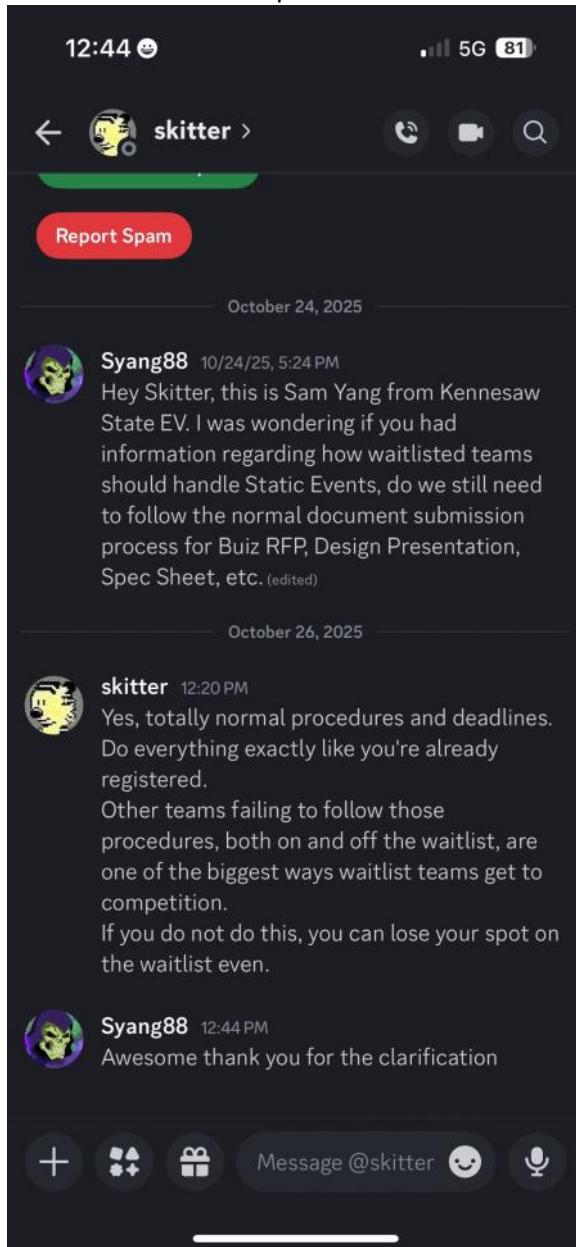
- Currently 13th in the teams waitlist
- During SES Review they do not know if your team is waitlisted or not
 - o Can keep our push on SES

What's needed for competition:

- Statics
- Tech Inspection
- Car

Statics:

- Ask Skitter how Waitlisted teams are handled - asked
- Continue under assumption we submit Buiz Cost Design



Tech Inspection:

- For sure SES and ESF submissions still happen
- Would assume same case for Acc Video

Car:

- 13 is a really shitty number for the waitlist
- Need to talk to leads as to what the direction of the car will be given that we are have our competition registration in limbo
- Dates to know for this:

Meeting Notes:

Statics:

- Develop plan for statics this week. Assign people roles and start holding meetings.

SES + ESF

- Push forward with submission
 - o In timely manner (ASAP)
 - o SES, ESF and acc video

11/10/2025 - Post Barnseville

Monday, November 10, 2025 2:57 PM

11/10 - Lead/Admin topics -

- Barnesville Planning
- Formula South Planning
- Leadership Ga Event
- KS8E teardown
- Budget->subgroup budget
- Ordering (big order 2/3 timelines)

Admin meeting

Barnesville -

- Lot of people, have form cut off week of event
- Testing leadin up to event was good - 4/5 days we tested
- Need to be more proactive planning the little things (building out from master timeline)
 - o Needed final roster earlier (to assign jobs etc)
 - o Have specific meeting for event before the event.
- Car teams were fine.
- EV safety, drivers meeting was missing
- No drinking on Friday and noise complaints (esp for admin)
- Consolidate cars except for people with exceptions
- Have clear expectations set esp for newbies (pit bikes, drinking)

Ordering -

- Hit up subgroups for finalized designs for ordering.
- Base budget/ ordering of BoM
- Give varun total boms for ks9 so he can see what is sponsored
- All orders that were submitted need to be known
- Varun - prev sponsorship \$ amounts to create estimate of this year.

Lead meeting -

—Lead Meeting Notes—

Wednesday, July 23, 2025 3:15 PM

07/23/2025 Lead General

Wednesday, July 23, 2025 3:15 PM

Expectation for car going by start of next week

- Wasim check suspension of the car
- No undertray testing
- Need to put car on dyno
- Final drive reinspect

07/30/2025 Lead General

Wednesday, July 30, 2025 1:42 PM

Prep for Michelin Testing:

- Do we go two or one day? August 16th and August 17th
 - Team leads want to try and get two days for testing
 -
- State of car? @chance
 - Can run tonight
- Mechanical sensor prep - @wasim
- Personnel for testing
- Testing necessary:
 - Mock Endurance
 - Energy consumption and Cell temperature
 - Skidpad and GG circle to measure pure car performance
 - Michelin testing
 - Suspension travel
 - Damper velocities
 - Aerodynamics
 - Pressure Tap Data
 - Coast down - Motor Stress
 - Powertrain
 - AIRS Cycles
 - Low Voltage

08/06/2025 Lead General

Wednesday, August 6, 2025 5:24 PM

Where are we at and where are we going:

Design

- Need to turn these into actual concepts / designs for cars
- System requirements review for each team in two weeks
 - o Includes goals
 - o Lessons learned
 - o Will submit VD one for review this week so you guys can use as a template / example
 - o New leads: I will sit down with you and walk you through this
 - o If you are lost please send me a message or your previous leads / advisors

EV Powertrain - Accumulator:

- Going from Baileys list, start working towards what large level changes need to be made, no matter what scope, to get us to the point of the same accumulator
 - o MSD Location
 - o Stud Bonding
 - o Module Plastics
 - o Etc.
- The key here is less about performance and more about getting us to a point where we don't slow down the rest of development

EV Powertrain - Driveline:

- Start looking at the driveline efficiency equations and how we can extract from dyno testing
 - o There is an entire chapter of this in the SAE dacq book
- Using these values we can target total system efficiency and actually have metrics to design towards

Vehicle Dynamics - VD:

- Lock in on simulations and kinematics
- Tire selection
 - o Meet with frame about feasibility / footprint of making this change
 - Resource wise, if new aero, best window to do it is now
 - o Can we keep the same mounting points in context? Can we keep the outboard suspension the same?
 - o Smaller R20s look better but not enough to justify extending design by 2-3 weeks

Vehicle Dynamics - Suspension:

- Wheel Inserts and Hubs
 - o We are sending the stock order for those soon ~2 weeks
 - o Meaning you have about 5 weeks to design these two components to meet manufacturing deadlines before we start losing time
- Read through the suspension debrief sheet for all of the complaints
 - o For Hubs please talk to @Emil for brakes spacing as well for rotor pins and how we want to interface
- @Wasim, after getting dacq on the car for wheel speeds and shock pot, number 1 priority is getting the hub design done
- @jordan or @Preston for Wheel Insert designs

Vehicle Dynamics - Frame:

- Diff cage could be real
 - o Need to know why we should / shouldn't do it
 - o From off the dome we lose 3 / 4 separate components to assemble driveline if we can do a cage
 - o Highest possible scope change for the frame realistically
- Compile from either design briefs or project proposals the following
 - o Frame mass
 - o Frame stiffness in torsion

Vehicle Dynamics - Interface:

- Ergo rig ergo rig ergo rig
 - o Need to look at frame position for tubes
 - o Not forget steering positioning
- Brakes
 - o If rotor material finalized and design finalized, can hit up BRISCO again
 - o They didn't machine them for us because we hit them up after Clemson already did
 - If not, @Cameron please talk to either Bray or John into what they did previously to manufacture those and make the appropriate tooling part of Big Order 1
 - o Get an order list together for consumable and anything necessary for both cars to have brakes
 - Need to have both be able to drive at the same time eventually
- Steering
 - o Can wait, lower scope in terms of manufacturing and other designs

Low Voltage - Electronics + Wiring

- Start performing min viable design changes
- Put together list of boards that need to be reordered
- Now that deadlines are close / same as last years, macro goals is to get boards done early October
- Need to think of shit for people do come Fall, wiring tasks, board bring up, etc.

Low Voltage - Firmware + Data Acquisition:

- How do you want leads to approach you about sensors that need to go on car for design validation?
 - o If we want to integrate need to start thinking about those early into mechanical design
 - o Do you want a form? Meeting? Etc.
 - o We can make it part of the proposal but idk how helpful that is to you at the end of the day
- Interfaces and using Data Acq.
 - o To get more people into using the data off car, walk people through getting fox glove and viewing files and creating plots in foxglove
 - Doesn't have to be chance
 - o Walk through for Parser form .mcap to _____

Aerodynamics:

- Design effort can continue, please get with composites more often just on the subject of feasibility
 - o Relating back to our top level goals and constraints, we are only returning 3 composites members for the year, little has been said or done in terms of turning these three people into how much time it will take for molds and layups to be done
 - o If you expect X amount of molds necessary (scale for mainplane, endplate, etc.), you don't need to be super precise, enough to get them started, have them turn it into work necessary by week and cost for material
 - This gives them the basis to do shit like 3d printed molds or start on components like endplates and start laying that up so we aren't doing that in November December
- VD + Aero meet now, every Thursday after or before Aero meeting
 - o Scope:
 - Integration
 - Please no chunky jacking bar or getting car on jacking points
 - Vehicle dynamics
 - Make your shit drive
 - Setting appropriate stiffnesses for car
 - o Mainly me and Seth but please @Wasim @Micah @Cooper attend
 - You guys need to do this shit next year
 - Not just attend, do it better next year

Manufacturing

Machining:

- Get the list of shit together for Big Order 1:
 - o General stock
 - Aluminum rod
 - Bronze bushings
 - Etc
 - o Tooling
 - Follow up with Sams list of tools that he inventoried
- @Sam @Cam when are you guys getting back to fucking campus
- Start putting together how you guys want to train people for the next year
 - o What worked last year
 - o What didn't work last year
 - o Setup tags or something for things people are trained at doing or a spreadsheet
- SAM F.
 - o Get @Adi and one other person back on the Manual Lathe and Manual Mill
 - o Do the suspension bushings we left off on before EV Comp
- CAMERON
 - o Get @David trained up on CNC Mill and CNC Lathe
 - o Walk through going through CAM and getting shit machined again
 - o Make front sprocket and output shaft
 - If we change this design it's fine the stock is small

Welding:

- @Richard and @Micah get Maddie trained on doing TIG and whoever you can snag
 - o However many coupons y'all need
 - o Refill ARGON?
- Go through each of our sponsors for welding and put into the Business form
 - o EDGE
 - o Lincoln

Composites:

- Inventory for material and stock
- Like machining:
 - o Get expected shit for BIG ORDER 1
 - Foam mold necessary

- @LEADS if you have carbon parts that can get finalized early @David
 - o Endplates
 - o Pedal Faces
 - o Steering Wheel
 - o ??????
- Get with Varun on how we can improve our sponsorship outreach
 - o Going back to getting sponsors in the end of the year is hard to track, makes shit less future proof
 - o Stop with your own tracker

Testing

- @Dom and @Chance, how much time do you guys need for the car to be on Dyno
 - o What did we get out of going through the logs
- @Wasim, get Ben to get the tires mounted
 - o One Set of R2Os and One Set of LCOs
- Can the people on this list make it to testing?
- @Chance any update for getting dacq on the car?

Admin

- Every week need an update on the following items, goal is for me to not personally following up on any of these items
 - o Barnesville
 - o Ordering
 - o Faculty - Santana
 - o Faculty - Upstairs
 - o Faculty - Manufacturing
- If no changes that's fine just need to be in the loop if there is or isn't

6 Person per site, \$42 Per Night

People to bring:

- Chance
- Emil
- Richard
- Sammy
- Adi
- Dominik
- TJ / Val
- Garrett
- Wasim
- Seth / Cooper
- Truck Driver (Mihai, Carter, Ben)
- Varun

Green = Min Viable
people that need to come

Overall

Older Leads + Members (you too chance):

- Work together with the newer leads and help them get caught up
- These are the skills they need (mechanical)
 - o CAD
 - o FEA
 - o Design Process
 - o Data Analysis
- Thank you Seth for doing the statics lesson, let's keep going
- If you are comfortable with walking through @David @micah @Dom or @wasim through these take the time to schedule and do this
- Please don't be hostile and start working with Project management
- They are brand new to the team and just want to help, it's going to take a minute for them to learn how to engage with you
- You guys are on the same team, you get the same score and placement at the end of the year

Newer Leads:

- If you are confused say something
- You guys are about to be leads on the team start showing it
 - o If you aren't going to make it to a meeting or going to be late, say something
 - o People will only take you as seriously as you take the effort you put into the team

Chief

- From next Wednesday I am taking a 2 week break from working
- From 9am - 7pm I will be in the shop, if you have a question or want to get involved that is the time

09/08/2025 Lead Sync

Friday, September 5, 2025 10:27 AM

Need projects in the PM Tracker-- Please include me and Adi in them so we can get the updates as email
@Dom/@Emil/@Seth Nice job

@Micah, @David T, @Wasim, @Tj, @Chance- Please add your projects in here- I snoop chats I know you have people on projects-----Wheel speed sensors, Final Drive stuff, Wheel inserts, Suspension things, etc.

David O. has his in the composites tracker

CAD integrated with Lead sync(not tonight)- NEEDS TO BE CHECKED IN ON PDM FRIDAY NIGHT FOR REVIEW

Overall

Lets get Big-Order 1 going well now that we can order stuff with school
Manufacturing Today after main
Composites on Wednesday-Yippee Airtech/Toolboarding sponsorship

What proposals are getting presented on Thursday/subgroup??
Only have 1 in rn
project-proposal general, shoutout Preston

For Michelin- Need a list from leads of who you want to go to Michelin new member wise- max 20 for team

Classes before subgroup review meeting in your time slot

9/15/2025 Lead Sync/CAD Spin

Monday, September 15, 2025 6:21 PM

Not enough stuff in PDM for full CAD SPIN, normal update

3 Project proposals full in, Aero + Preston

Please submit tonight, anything posted tomorrow will not be a part of design review on Thursday

Can we get a list of projects that will get submitted tonight,

VD - Adjustable bellcrank, bearing carriers, wheel inserts

LV/DAQ - TCU, VCU, Code of New Dash,

EV PWR-LID P1, MSD, Charger

AERO-Full P1

Composites - Front Wing Structures

Michelin update

Shits kinda fucked money/truck wise

Can't take full trailer

Options

Flat bed with car and then pit cart in someones car/other parts among cars

Larger utility trailer with pitcart+car(requires smaller truck/larger car)

 6' x 12' Utility Trailer With Ramp
 (In-Town) 1 \$104.85

Scheduled Pickup
 9/26/2025 at 12:00 PM
 72 hour rental
 U-Haul Moving & Storage at Roswell Street

Drop Off: 9/29/2025
 U-Haul Moving & Storage at Roswell Street
 900 Roswell St
 Marietta, GA 30060

Damage Coverage 1 \$24.00

SafeTow®

Rental Dollies/Pads

	Furniture Dolly	<input type="button" value="0"/> <input type="button" value="\$0.00"/>
	Appliance Dolly	<input type="button" value="0"/> <input type="button" value="\$0.00"/>
	Furniture Pads	<input type="button" value="0"/> <input type="button" value="\$0.00"/>
	Utility Dolly	<input type="button" value="0"/> <input type="button" value="\$0.00"/>

Subtotal: \$128.85 [Show Estimated Taxes +](#)

Check Out

Will work with Admin on it all

(Roster) :

We'll have a normal lead sync next week followed by CAD Spin

Trailer for car and toolbox

Min Viable	Other Members	Newbies
1. TJ	1. AERO - Cooper	1. AERO - Alex Ha
2. Varum	2. Comp - Alexander J	2. PWR - Camden
3. Chance		3. PWR - Hayden
4. Wasim		4. Comp - Corey Codina
5. Dom		5. VD - Melissa
6. Sam Yang		6. VD - Reese
7. PM - Adi		7. Business - Andrew Mond
8. Truck Driver -		8. LV- Ben W
9. Emil		9. LV- Nick

9/22/2025 Lead Sync

Monday, September 22, 2025 6:42 PM

Michelin
We have truck + tiny trailer
In Monday meeting slides

Those who know truck class tomorrow- 8-11 AM main campus, please make sure you are on time
Only the people who are on that communication need to worry

Homecoming on Saturday: have our people and will have IC car
Need wheels on that and cleaned up

More info on IC in main meeting

Projects (evil time)

Last week:

Frame PP1
Time: 23:33
Pass/fail: Not this week (proposed analysis section)
(can start on part 2)

TCU PP1
Time: 29:51
Pass/fail: Fail

Aero PP1
Time: 30:10
Pass/fail: Fail

VCU PP1
Time: 18:21
Pass/fail: Pass

Brake Rotors PP1
Time: 8:14
Pass/Fail: Pass

Wheel Insert PP1
Time: 15:00
Pass/Fail: Fail

FW Internal Structures
Time: ~16:00
Pass/Fail: Fail

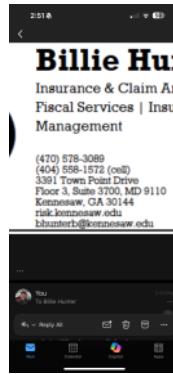
DRS PP1
Time: 15:00
Pass/Fail: Fail

How are we looking at follow ups?
If you need help from who and when?

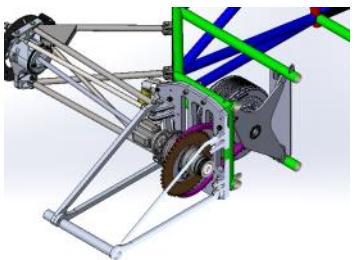
Major deadline approaching
SES Deadline- Coming up very fast, @Micah, @Dom,
EV pwr- Acc deadline

What needs to get done for those to be all in?

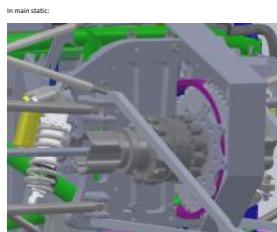
Note: Looking at changing the time of this meeting



Micah Frame done; pending final check
Dom module plastics: not necessary anymore for SES, wants testing done eventually though

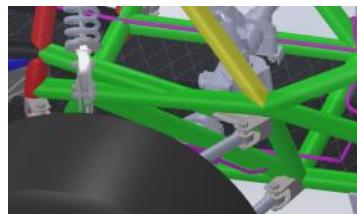


What the sprocket does

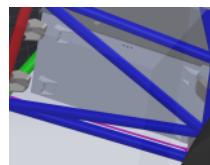


In main static:

Yoke plate unaligned, multiple toe rods, missing right axle, 4 rear right tires, 2 vpus, inverter missing, rear lower control are no in yoke plate, chassis acc mounted up in the rear.



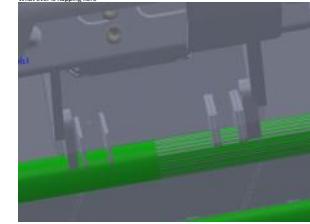
Just needs to get deleted, just been suppressed Mical



All the assemblies have rebuild errors except aero

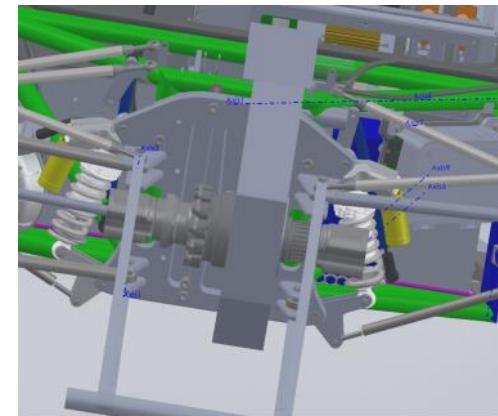
Shock inside of diff

What ever is happening here

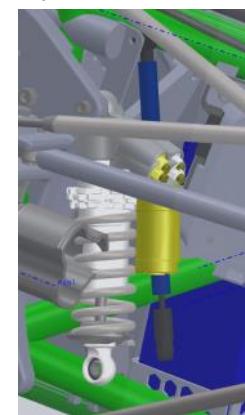


Break light missing

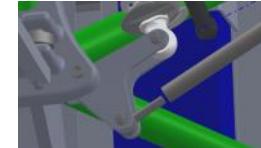
Lower right control arm missing



2 rear right shocks

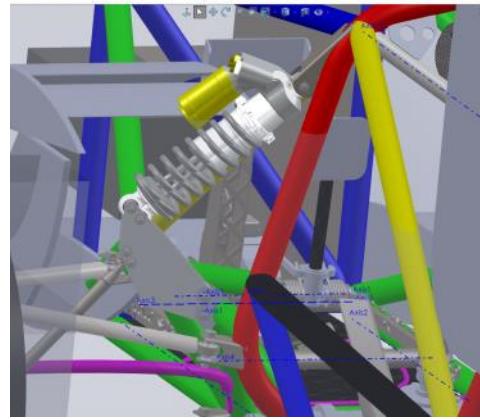


This



ts, shock pots all





10/06/2025 Lead Sync/CAD Spin

Monday, October 6, 2025 5:48 PM

Major updates:

SES Submissions:

Micah needs his frame stuff @Sammy

For Micah to get all his stuff done he needs characteristics from you guys

Can we get Doms stuff ordered and get moving for testing?

Please have any design projects be put into project proposal general by tonight that will be presented at subgroup/other meetings

CAD update:

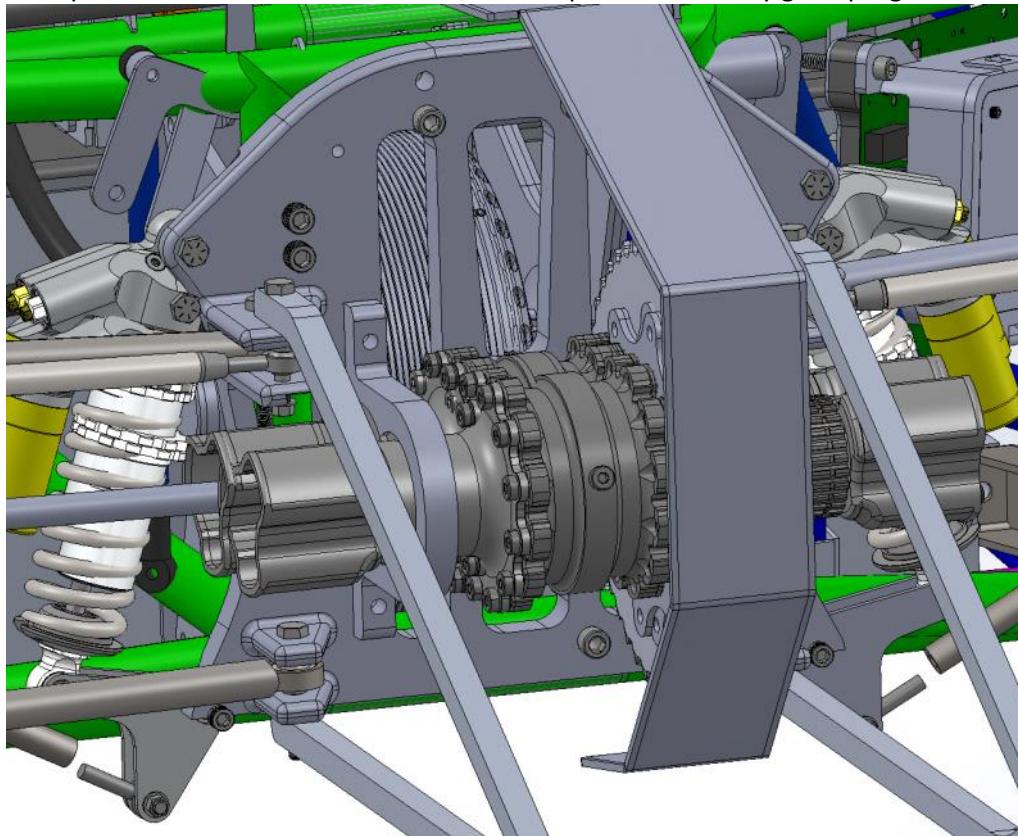
If you are not editing something like main static please do not check it out- **People on shop computer - If you do not know how to use PDM please ask

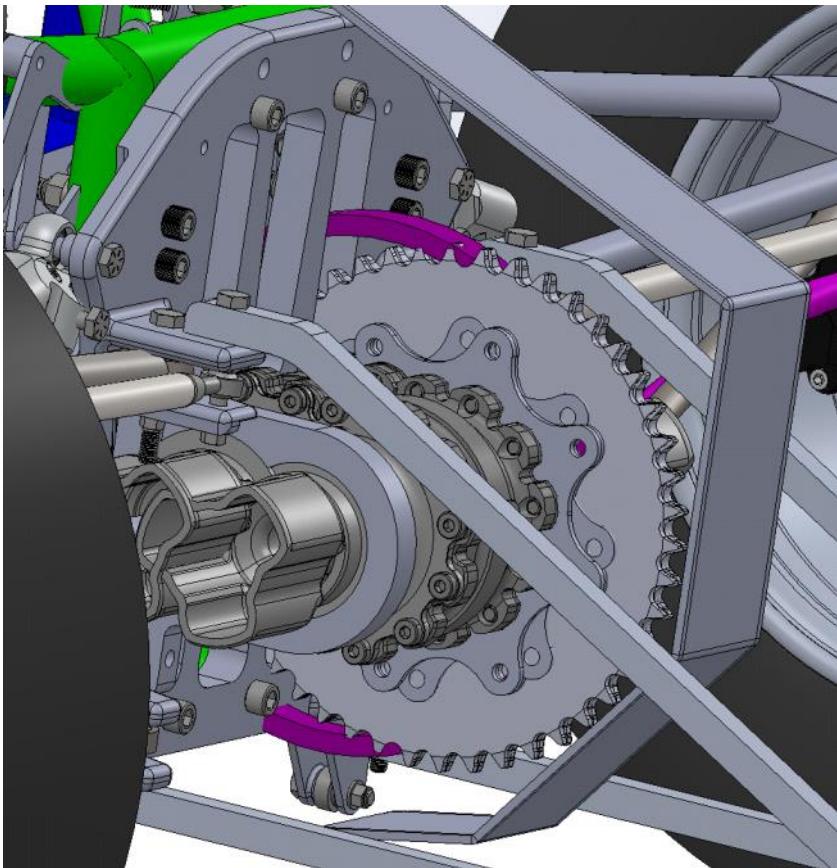
PDM having a rough time because stuff is checked out

I will get some more stuff cleaned up for instruments and wiring/make sure lid goes through and gets updated in main static-I have like an evil ass week so I will try my best but no promises

Other parts

Yoke plate still needs some love -Bolts/sus components-still very good progress





Still evil chain

<3 Micah for frame update

10/27/2025 Post Lottery

Monday, October 27, 2025 10:39 AM

Overall:

- Static Event Submissions are the same
- ESF and SES submissions are the same
- Need to be prepared for getting off the waitlist in terms of registration fee

Competition Deadlines:

- Payment Deadline for Registration - October 28th
- Registration Closes - November 30th
 - o Teams added to waitlist

KS9:

- With uncertainty of competition now - want to guarantee we can at least still attend a national competition
- Formula SAE Hybrid
 - o April 2026
 - o \$2900 Registration Fee
 - o Only modification to the car is lower maximum voltage allowed for accumulator
 - o Are still allowing electric cars to attend
- Can join the waitlist for that and technically bring the KS8 as that would be still a rules legal chassis for that season

KS9 Design:

- Current Projects:
 - o Lower Container
 - o Module - Plastics
 - o Cooling Loop
 - o Distributed BMS
 - o Lid
 - o Cone Logger
 - o EV Dash
 - o VCU
 - o TCU
 - o Bearing Carriers
 - o Chain Guard
 - o Front Wing
 - o Rear Wing
 - o Front Wing Mounting
 - o Rear Wing Mounting
 - o Frame
 - o Wheel Insert
 - o Wheel Hub
 - o Pedal Box
 - o Steering Wheel
 - o Jacking Bar
 - o Fire Wall
 - o Side Panels

11/10/2025 Lead General

Monday, November 10, 2025 7:03 PM

Barnesville:

- Thank you to David O for getting trailer ready
 - Should be standard for events for getting trailer ready
 - Build out trailer packing list/create organizational chart for trailer
- No explanation for members for general event info and responsibilities
 - Too many people not knowing what's going on
 - Look at previous years event planning, nothing really changes year to year
 - More proactive in getting info ahead of time
- Build out event planning templates specific to FS and Barnesville
- Thank other teams, Lamar County Karting, and Jack's dad in public post
- General behavior
 - People need to listen to quiet hours
 - Leads, Admin and Members
 - Rules around drinking need to be enforced at all levels
 - More people need to help with Sunday clean-up
 - Leads specifically
 - As the team grows, leads set expectations for behavior
 - Left super late, left before helping Alumni clean up cooking stuff
- More effective use of people at events
 - Not every lead needs to be at the event, if they have other team related tasks to attend
 - With such a high attendance, effectively using the people for car teams/course working
 - Members want to work with the car, some felt frustrated not being able to work closer to the car
 - Members that are more consistent in shop/testing are more helpful
 - With recruitment and member numbers rising, we need to determine what we want to get out of Barnesville next year for members
- What was the goal for this Barnesville
 - Beating KS7 time
- Don't frame Barnesville as an unserious event
 - Leads know this, but members need to consider this event to be serious
- We can test at Barnesville, it is relatively cheap
 - Driver training
- Planning
 - Have an open meeting for Formula South

Ordering:

- Admin is meeting on Thurs about processing stuff for Big order 1
- Budget will be finalized on Friday
- Team is looking to save money for next year since design changes this year is small

IC:

- Sammy wants to talk to Micah and David about IC car needs
- Huge shoutout to Micah and David for getting the car running
- Should start to look into Faculty Board for the team

From Admin meeting

Barnesville -

- Lot of people, have form cut off week of event
- Testing leadin up to event was good - 4/5 days we tested
- Need to be more proactive planning the little things (building out from master timeline)
 - Needed final roster earlier (to assign jobs etc)
 - Have specific meeting for event before the event.
- Car teams were fine.
- EV safety, drivers meeting was missing
- No drinking on Friday and noise complaints (esp for admin)
- Consolidate cars except for people with exceptions
- Have clear expectations set esp for newbies (pit bikes, drinking)

—PM - Chief Meeting Notes—

Monday, July 28, 2025 5:21 PM

07/28/2025 PM + Chief Meeting

Monday, July 28, 2025 5:21 PM

- How often do we meet
- How much scope if Val going to have

Manufacturing Capabilities: Machining

- How many machines do we have
 - o Send message to Paul about the waterjet
 - Will mean if we want to get a send cut send in the middle of fall
- How many machinists
 - o How many more can we have?
 - Look at current team roster
 - David
 - Cooper
 - ..
 - Get members currently on team trained to manual and CNC
 - 2x the amount of people who can train new members
 - o Who do we want to target to machine components?
 - Current members who are committed to team into training new members
- 2 CNC Mill, 1 CNC Lathe, Manual Mill, Manual Lathe
 - o Get repairs done by school

Fall stock order:

- Accumulator sheet stock
- Hub stock
- Wheel insert
- Busbar stock (actual)
- *Module Plastic
- Regular tab stock
- Aluminum rod stock
- Bushing stock
- Firewall - stock

Manufacturing Capabilities: Composites

- Resources used from last year and KS7
 - o How much bagging tape
 - o How much Resin, etc.
- How many members in composites
 - o 3 Consistent Members
- Biggest limiting factor for composites is personnel
 - o Ask composites how they want to go about getting more hands and members
 - o See composite design and components we can get done early to engage members
- Space

Personnel:

- VD: 9 Personnel (4 Experienced)
 - o VD: 1 (1)
 - o Suspension: 3 (1)
 - o Frame: 3 (1)
 - o Driver Interface: 2 (1)
- PWT: 3 Personnel (0 Experienced)
 - o Drivetrain: 1 (0)
 - o EV PWT: 2 (0)
- Aero: 4 Personnel (3 Experienced)
 - o -----
- Low Voltage: 4 Personnel (3 Experienced)
 - o Electronics: 3 (2)
 - o Firmware: 1 (1)

Definition of Experienced:

- Done design cycle with team
- Designed a component currently on the car
- Kind of eye ball'd

Budget (Estimated):

- See admin closed log

Check in with faculty for ordering to check when components are frozen to be ordered and get started

08/03/2025 Michelin Testing Meeting

Sunday, August 3, 2025 6:52 PM

6 Person per site, \$42 Per Night

People to bring:

- Chance
- Emil
- Richard
- Sammy
- Adi
- Dominik
- TJ / Val
- Garrett
- Wasim
- Seth / Cooper
- Truck Driver (Mihai, Carter, Ben)
- Varun

Green = Min Viable
people that need to
come

TJ/Val
Dom
Emil
Sammy
Val
Cooper/Seth
Richard

Truck (Mihai

Plan now:

- Ask people in green for availability
- After Monday meeting, touch base with @seth @chance @emil @dominik about testing necessary for this event, will justify / unjustified needing to make the event two days
- After knowing that continue with prep plan for the car

We have the min viable people to come, we can extend the people given who can / can't make it out there

Question before anything: "do we need to make it two days?"

Testing that needs to get done while we are out there:

GG Circle (3 Radii):

- Index laps for performance
 - o Basing off of lap time simulation and goals for autocross
- Aero On - Off
 - o Approximate performance added as CI
 - o Shock Pot need to be mounted
 - o Aero on the car + rebuilt
- Tire testing with gg circle - 3 radii
 - o Mount R20s

BLUE = action items,
need to get done

Straight line testing:

- Accel benchmarking
 - o See what our accel time is in the practice lot
- Coefficient of drag validation in straight line
 - o Motor stress

Skidpad testing / benchmarking:

- Benchmark for goals for the car
- See if car is capable of goals currently

08/04/2025 PM + Chief Meeting

Monday, August 4, 2025 2:08 PM

Sam's first draft of critical dates:

- August 6 - Design Start lol
- August 18 - Big Order 1*
- August 21 - System Requirements Review (VD + Aero)
- August 22 - System Requirement Review (EV Power + Low Voltage)
- September 5 - 2026 Rules Drop (Approx.)
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March 28 - Car Static Testing - CG + Inertia

April 4 - Michelin Testing - Performance Benchmarking

April 6 (Monday of FS Week) - Car Reveal (Faculty, Sponsors, Etc.)

April 11 - Formula South Invitational (Approx.)

May 4 - Design Event Statics Due (Approx.)

Meetings Scheduling for Fall Semester:

- Leads, Sunday @8
- Chief + PM Meeting, Monday @7
- General Meeting, Monday @8
- Design Review - Electric, Thursday @7
- Design Review - Mechanical, Thursday @8
- Chief + PM Meeting, Friday @6

Shit figured out under each design review:

- System Requirements Review:
- Subgroup goals
 - Design Scope and manufacturing prep
 - Projects that re for sure happening

Preliminary Design Review:

- Suspension configuration
- Chassis Configuration

Critical Design Review:

- Manufacturing plan and feasibility
- Testing plan for each subgroup
- o Data Acq. Necessary

Upcoming Wednesday Meeting:

- Create designs for items that need to be fixed for legality or reliability

August 18 - Big Order 1*

- Machining Tooling

- Wheel Hub Stock

- Wheel Insert Stock

- Foam Mold Stock

- Resin and Bagging

October 6 - SES Design Push*

- Aero Mounting

- Accumulator Mounting

- Suspension Inboard Nodes

- Ergonomics chassis design

October 20 - Big Order 2*

- Midwest Steel Order

- VR3 - Chassis + Suspension

- DigKey

- JLC

- o Team Card

- Wiring (HV and LV)

- Hardware - Fasteners

- Consumables

Items to be done before Winter Break:

- Rolling Chassis

- o Wheel assemblies

- Accumulator Box

- o Acc Mounts

- Module Plastics

- Busbars

- PCBA's

- o Bring up Phase

Shit to do during Winter Break:

- Chassis Torsion Testing

- Module Assembly

08/04/2025 PM + Chief Meeting

Monday, August 4, 2025 2:08 PM

Sam's first draft of critical dates:

- August 6 - Design Start lol

- August 18 - Big Order 1*

- August 21 - System Requirements Review (VD + Aero)

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S&R Figure out what needs to happen next design review:

- Subgroup goals

- Design Scope and manufacturing prep

- Projects that re for sure happening

Preliminary Design Review:

- Suspension configuration

Critical Design Review:

- Manufacturing plan and feasibility

- Testing plan for each subgroup

- o Data Acq. Necessary

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- legality or reliability

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- Busbars

- PCBA's

- o Bring up Phase

Shit to do during Winter Break:

- Chassis Torsion Testing

- Module Assembly

Fisrt Draft Aug 4th

08/28/2025 PM + Seth Meeting

Thursday, August 28, 2025 8:17 AM

Problem:

- Previous years where leads were still part of leadership and serving internships out of state, was hard to hold accountable to team and manage the work for the team
- Left holes in responsibilities and messy semi leadership gaps where some people would take up the role

My solution:

- Clear list of things that Seth has to work on / address while gone during his internship that Project Management can hold him accountable for
- No weird shit where Cooper is doing his job over the internship, we fuck this up every fucking time

List of responsibilities Seth has to do while gone:

*Can be done virtually obviously

- Present the Monday meeting slides*
- Attend every CAD Spin*
- Attend every Design Review*
- Attend every Aero Subgroup Meeting*

This list is the bare minimum, if he violates these consistently

Issues at 10/09:

- Has cancelled subgroup meetings
 - Has not attended previous design reviews
 - Has not come to the lead syncs and CAD Spins
 - Comes to my direct messages about engineering topics
-
- Clarification for a lot of the manufacturing scope for aero
 - o Undertray design and side wings

10/09/2025 PM + Chief Meeting

Friday, October 3, 2025 9:39 AM

Problem:

- Team isn't extracting the most from the Project Management Role
 - Members aren't extracting the most from the tracker
 - o It isn't something that we use to lead meetings or lead syncs
 - o Does not display enough information in terms of what is gating other developments on the car
- Team has never had a great structure for PM
- Car did not run enough during the Summer and into the Fall
- Into the fall the testing standard for the team has fallen behind and been rushed
 - o Car Log not filled out
 - o Pre Checks for the Car isn't followed
- We are not on track to hit the set of current Design Deadlines / Benchmarks

Portal to the 8E Car Log [HERE](#)

Proposed Solution:

- Pivot to two managers, one in charge of the Testing and Development and the other in charge of the Design and Manufacturing sides for the team
- Into the Winter, could revisit for Build Season with workload, there is a lot of prep that needs to get done for Testing but again can revisit later on
- Design Manager would pivot to mainly managing the CAD - tracking specific proposals throughout the design season to hit specific design deadlines, update calendar for the week so nothing is blocking anything else in development
- Testing Manager would look to maintaining the testing standard, getting people roped into testing the car and making sure we have proposals and proper checks for the car

Actional Items - Design Manager:

- In Lead Sync, follow with the weekly schedule and round up for when things are getting followed
- Have a chart following interactions for different projects and their interactions necessary for completion
- Lead with the Calendar at every meeting and building out our major deadlines for Design and submission
- Monday Meeting slide on how Design Proposals are doing, where we are lacking in our own teams design standard with examples, where we are in terms of deadlines for projects and hitting our markers for the car
- Don't have to show up to every subgroup meeting now, you should only come to clarify specific projects like I did for the module design for the top plastics

Actional Items - Testing Manager:

- Update the weekly schedule for the car log and present to the full team every week at Monday Meeting
- In Lead Sync, prompt leads with any specific testing that needs to get done for the cars and what preparation necessary to do so
- Go through the prechecks necessary for the car and make sure that these tasks are at least getting assigned and completed for the car
- Make sure the sensors get mounted to the car

Measures of Success:

- Will have a review of the new structure after the 11/30 Design Freeze and how we want to pivot with the position or make adjustments for out build cycle
- For Testing, the amount of testing mileage done on the car / the amount of information and work we have done so far through the flowchart of testing we set out previously in the year
- For Design, How close we are to hitting critical deadlines and how we can manage these across from each other in terms of design interactions throughout the year

Interactions with Chiefs and Lead:

- All interactions with leads will be primarily driven and brought up in Lead Sync

- For Testing Manager, the goal should be to catch and build out for the two weeks leading what needs to get tested and in what state the car needs to be and make sure we are able to really use this testing and coordinate parts for it throughout
- The testing plan will default to the Sam Yang VD flowchart from the KS8E unless something more urgent for design comes along
- For Design Manager, Follow the same structure - building an interactions table for what interactions design projects have for each other (get from leads) and know what state we need each proposal to be in for critical deadlines (can elaborate more)
- Chief will provide the major deadlines and what design concessions need to be made or don't for making these deadlines

—Design Review Notes—

Thursday, September 4, 2025 6:55 PM

09/04/2025 Design Review

Thursday, September 4, 2025 6:55 PM

Proposals Necessary for SES Design Push:

- Frame
- Lower Container
- Module Design
- Accumulator Mounts
- Rear Wing Mounting
- Front Wing Mounting
- TCU

Lower Container:

- Need Micah to prescribe how much the chassis is changing and in what direction
- Having acc mounts closer to the modules
 - o Rules requirement to be 50mm close
- Will get part 1 of the proposal done by next Monday

Frame:

- Side Impact Change - adjusted mounting point from the rules
- Get distance necessary to meet side impact structure rules with aft upper control arm point
- Continue with the yoke design
 - o Move bearing carriers closer to see if collision with the rear sprocket

TCU:

- Rules requirements for the TCU staying largely the same
- Voltage to frequency being removed
- Changes are mainly incorporating the bodge the board

Notes from when the power ran out

Front Wing Mounting:

- Need PDM get setup for Aero
- Middle of Next week (Wednesday) will get design for it done
- Inner end plate design will be done for the mounting
- Same KS6 Mounting for the lower FW Mounting

Rear Wing Mounting:

- Swan Neck Design and Strut design saying identical
- Want to move the strut to a frame node
- Move to a bonded tab on the bottom of the RW Mainplane for Load pathing
- Grounding, fiberglass tubing to replace the current carbon tubing

Undertray Mounting:

- No flat plate under the undertray, instead directly mounting the side tunnels directly to the side of the car

Module Design:

- Still investigating design from holding the bottom of the stud and positively locking
-

09/11/2025 Design Review

Tuesday, September 9, 2025 9:13 AM

Proposals for Review:

Pedal Box PP1
Distributed BMS PP1
Radiator MFR Test Proposal
Lower Container PP1
Steering Wheel PP1
EV Dash PP1
Cooling Loop PP1
Module PP1

- 1. **Module pp1** - time it took 20:47
 - 1. Passed but need to review PP1 before proceeding
- 2. Lower container pp1- time took 15 mins
- 3. Pedal box pp1 - time took 25 mins
- 4. **Cooling loop pp1** - 30 ish 40 mins
 - 1. Denied
- 5. Radiator test proposal
- 6. BMS pp1
- 7. Steering wheel pp1
- 8. Mech Dash pp1
- 9. **Electrical dash (was submitted late) pp1**
 - 1. Approval after Code section added

Module:

- Weight requirement should be derived from the upper level targets across the car
 - o 2.5% is just a value that you can be at but has no foundation in what the cars upper or lower approximate should be
- Should include any photos or results from stud bonding analysis or lessons learned
- DFA goal
 - o DFA is inherent to your design considerations and constraints
 - o Mechanical stack up is just the goal
- Lacking certain specificity on the lessons learned especially if they can turn into some of the requirements for the project

Lower Container:

- 6061 T6 early design constraint that is unnecessary at this point of the design
- Design is changing to move the acc mounts further away from edge of the module

Pedal Box:

- Fatigue estimation being used is from assumption of infinite fatigue limit
- Energy being wasted for deflection
 - o Need to collect brake pressure sensor to reduce the slop

Cooling Loop

- Create a BOM
- Getting an answer for both parallel vs single radiator system / loop
- Need to limit the scope of the project
 - o First MFR radiator testing

- Bucket testing and pump investigation finalization
- Undertray design and into flow target necessary to still hit cooling target

MFR Radiator Testing:

- Fix to one velocity for the testing
- Hook up camera to the manometer

Distributed BMS:

- Blurb about interactions
 - The BMS is an Addition to the MDBs , there for constrained by this pre-existing part.
The Scope of this BMS project is to get the BMS's working off the car with the "Fancy Micro controller Uno " 1st. After that works and communicate to the GUI and other Slave boards, the code integration into the car will be handed off to the Firmware team.
 - The BMS if tested and working properly, "can Run at competition". However it is not the priority to use it a competition currently (9/1/2025) . Also as a side note , the Orian would still need to stay in the lower container to manage the Current sensor, or some work around would need to happen until the ACU can manage that .

Steering Wheel:

- Maintain diameter for frame rules and interaction
- Buttons decided by LV subgroup
- Removing the clamshell constraint
 - Consideration for wiring to the buttons being added to the steering wheel

Mechanical Dash:

- Purely the mechanical side of the project not electrical PCBA design

09/25/2025 Design Review

Thursday, September 25, 2025 1:36 PM

Proposals for Review:

- Lid PP1
- Lower container PP2
- Frame PP1
- Wheel Insert

Frame PP1

Time:

Pass/fail: **Pass**

Lower Container PP2

Time:

Pass/fail: **Fail**

- Need Interactions with the Acc Mount on Container and Frame

LID PP1

Time:

Pass/fail: **Pass**

Wheel Insert PP1

Time:

Pass/Fail: **Pass**

Notes of Projects by Chief Engineer:
(for PM stuff refer to Diary/ resource excel)

Frame:

- Proposed analysis is redirecting angles for the tire forces to sweep different angles of mounting for the damper

Lower Container:

- Removed the bends in the accumulator, full slots
- Rear acc mount holes moved an inch
 - o Not populated with the Chassis CAD
- Acc Mounts with Chassis and Container Mount Interactions need to be given in Proposal

Lid:

Wheel Insert:

- You could look into not using all twelve bolt holes on the outer diameter of the wheel
- Fatigue Life? Fatigue is measured in Cycles
- You can approximate how many cycles a specific component is going through mileage and load casing and characterizing a cycle

09/18/2025 Design Review

Tuesday, September 16, 2025 12:18 PM

Proposals for Review:

Frame PP1
TCU
Aero PP1
VCU
Brake Rotor PP1
Wheel Insert PP1
FW Internal Structures
DRS PP1

Frame PP1

Time: 23:33

Pass/fail: Not this week (proposed analysis section)
(can start on part 2)

TCU PP1

Time: 29:51

Pass/fail: Pass

Aero PP1

Time: 30:10

Pass/fail: Pass

VCU PP1

Time: 18:21

Pass/fail: Pass

Brake Rotors PP1

Time: 8:14

Pass/Fail: Pass

Wheel Insert PP1

Time: 15:00

Pass/Fail: Fail

FW Internal Structures

Time: ~16:00

Pass/Fail: Fail

DRS PP1

Time: 15:00

Pass/Fail: Fail

Notes from Projects:

(May also be in PM diary notes/the PM resource excel)

Frame:

- Detail into how the 5% margin was made, if it is the simulation discrepancy (which I know is a lot higher)
- Accommodation is a weird goal since you are going to do that by proxy of your chassis existing
- Driver Comfort is a weird goal, I would think this is a sub section or part of accommodation
- Accessibility is not really a goal, you have keep out zones for designs but not specific goals because again the way you can go about this goal is very different
- Proposed analysis should have some more detail in terms of motivation and justifying its complexity
- I would only distinguish the keep out zones and build out the simulation side and can be represented

TCU:

- Same footprint in the Lid
- Consider MSD Relocation, could break apart Discharge Resistor
- Remove Unfused TS-

Aero:

- Should clarify scope? If molds could be reused diligence should be done in investigating the manufacturing validity and if there are any compromises to performance
- Aero package weight - are these estimates from the overall vehicle weight or where do they come from if not
- Should note any suspicious inconsistencies with the simulation results like the accel

VCU:

- Diagnosis light visibility is more of a problem due to its location in the car
- Same box and foot print will be used
- Skipping the dash connection for RTD button

Wheel Insert:

- No mention of load casing or minimum FOS of the part necessary
- Defining your load cases across as well for this part is going to be super important and should be part of proposal one
- Build out the weight target across the part until you can define a minimum FOS and load cases cause that would describe what is a higher level criteria for the part

FW Internal Structures:

- Why do we want to test it, and then derive a stiffness target?
- KS7 scraping history needs to be revisited

DRS:

- Where do X% performance gains from the car come from?
- Have we validated running just open and the performance lost from it?
- How are we fitting the design weight within the rear wing and larger aero weight target on the car?
- Can be used in a test proposal for the team

10/02/2025 Design Review

Thursday, October 2, 2025 7:04 PM

Proposals for Review:

- Frame
- Lower Container
- Module Design
- Accumulator Mounts - Part of Lower Container
- Rear Wing Mounting
- Front Wing Mounting

Frame PP2: DENIED

- Camber change needs to be revisited
 - o From sketch, degree per cm of bump
 - o Need to have a graph of camber change over both bump and roll to show change of suspension nodes
 - o Accessibility with old acc mounts needs to have the new CAD for the frame acc mounts

Lower Container PP2: DENIED

- Populated the Acc Mount Changes in the CAD
- Tab got a lot longer from the frame
 - o Check buckling along the long edge of the tab - hand calc
 - o Or at least difference in stress across the previous design in CAD as well

Module Design:

- Stud Bond Testing requires more tests to get definitive for the hex pattern
- End Line Busbar issues - need a stronger bond between the plastic and the endline
- Only need the material for finalizing SES submission

- Test Module - Order Sheet of Ultem
 - o To go through and get more data points from stud bond testing
 - o To get higher surface energy from the Endline busbars
 - o Be able to validate sizing up to the M4 bolt size

Front Wing Mounting:

- Move the proposed mounting point upward - aero stiffness

GZ PM notes:

Meow

Frame:

Evil formatting on node 4

Direction clarification for camber-notes from sammy more pointed
Prove that the accessibility is real for ACC mounts

Lower container:

Considered how moving acc to not previous position could help CG etc

No weight calculated-look looong

3d print acc mounts to get scale

Why 1/4 in acc mount thicknesses probs rules

Modules:

Could we look at getting scrap for minim module for testing

Test Module: Ultem Thing

- o Stud Bond Testing
 - More Data Points
 - **Hex Pattern Validity**
- o Endline Busbar Testing
- o Torque - same testing as stud bond testing
- o Adhesive
 - Testing the Adhesive

10/09/2025 Design Review

Tuesday, September 16, 2025 12:18 PM

Proposals for Review:

Cooling Loop PP1

Time:

Pass/fail: **PASS**

GZ PM notes: -laptop broke close enuff

Wheel Hub PP1

Time:

Pass/Fail: **Fail**

Lower Container PP2

Time:

Pass/Fail: **PASS**

Sammy Notes:

Cooling

- 45c temperature target for inverter?
 - o Where is this coming from? Board or coolant?
- Max temperature for the inverter needs to take into account the mass flow rate

Wheel Hub

- General factors of safety of the part?
 - o With that defined load cases for the part are missing
- Weight goal is good, method of weight decrease would be efficient here
- Stud press fit was not mentioned in the project proposal
- Expand scope of the project

Lower Container

- 0.845 lb. increase
- Used calc from SES to check material thicknesses

Charger 240

- Just adding a wire into the same circuit construction
-

Aero FW Mounts
Notes on the right

10/16/2025 Design Review

Thursday, October 16, 2025 9:41 AM

Proposals for Review:

Wheel Hub PP1

Time: 12.24

Pass/Fail: Pass

Sammy Notes:

Wheel Hubs

- Re check the stud press fit check testing
 - o James had issues last year with conducting the testing
- Working towards an infinite cycle life through reducing stress?

Adjustable Bell Crank PP2

Time: 7

Pass/fail: Fail

Adjustable Bell Crank

- Work to reducing manufacturing scope for the test part
 - o Sheet Metal Tabs for the front rocker
 - o Get bushing for the chassis connection at the bottom of the mounting pivot
- Can run through the same calculations for the part

Cone Logger

Time: 13

Pass/fail: pass

Cone Logger

- Change the scope of the project

- o Needs to include now the cockpit for the car as you have a box mounting into the center of it

LV DRS

Time: 10.30

Pass/fail: Review

10/23/2025 Design Review

Thursday, October 23, 2025 6:52 PM

Proposals for Review:

SES

Frame PP2

Time: 6:20

Pass/Fail: Pass

Front + Rear wing Mounting

Time:

Pass/fail:

NON SES

Final Drive PP1

Time: 24:18

Pass/fail: Fail

Chain Guard PP1

Time: 15:24

Pass/fail: Fail

Jacking Bar

Time: 8:04

Pass/fail: Conditional

ADJ Bell crank PP2

Time: 8:39

Pass/fail: Conditional - Check Notes

BMS PP2 / PP3

Time: 14:53

Pass/fail: Pass

Load Cell

Time:

Pass/fail: Pass

Sammy Notes:

Frame

- Increase in weight from Ergo changes to the middle of the frame
 - o Still within the estimated weight of the assembly
- Torsional Stiffness is higher by 3%

Final Drive Testing

- What are the performance expectations from the car given each final drive selection?
- What is the target that this is trying to hit at the teams upper limit?
- Move your spreadsheet to teams
- CAD necessitates screenshots of it in the driveline assembly
- Need to follow the standard setup steps of the car because that will all effect the performance and evaluation of the car from this final drive testing
- Torque from motor value should be higher given the 208 do more
- The FEA does not have the setup for the simulation so hard to correct

Chain Guard:

- 7.4lbs? Seems high
- Definitely more interactions could be drawn from this part
- Weight has to be in context to the rules minimums for the design in terms of the material selection and thicknesses
- Motor Scatter Shield is currently satisfied by the Yoke Plate
- Need to add detail to having the chain guard not deflect

Jacking Bar:

- Factor of Safety needs to account for load cases for the part that is realistic
- Need to see load cases, very important part of design

Adj Bell Crank PP2:

- Include the FEAs without the bushing
- Don't need to necessarily revisit the load case of the component yet

Load Cell:

-

10/30/2025 Design Review

Thursday, October 23, 2025 6:52 PM

Proposals for Review:

TCU PP2/PP3 - Chance

Time: 10:13

Pass/Fail: Pass/Pass

Notes:

TCU:

- Carry over safety circuits
- As close as possible to original layout design
- Removed non iso voltage - frequency
- Contains safe for 12V

Wheel Insert PP2 - Jordon

Time: 25:30

Pass/Fail: Pass

Wheel Insert:

-

ADJ Bell crank PP2

Time: 2:30

Pass/fail: Pass

Adj Bell Crank :

Final Drive PP1

Time: 26:00

Pass/fail: pass

Final Drive:

Steering Wheel:

Steering Wheel PP2 - Melisse

Time: 17:15

Pass/Fail: Fail

11/13/2025 Design Review

Thursday, October 23, 2025 6:52 PM

Proposals for Review:

VCU PP2 - TJ

Time: 13 min

Pass/Fail: **PASS**

Notes:

VCU:

- Integrating different PCB material, better pot, multi stage power supply, automotive only components
- Jumper pins for teensy adc

Wheel Insert PP3 - Jordon

Time:

Pass/Fail: **Conditional**

Wheel Insert:

- Make drawing - go to subgroup review

Cone Logger:

- Need the mount for vectornav in the proposal

FW structures PP1 -

Time: 19 min

Pass/Fail: **PAAS**

Adj Bell Crank :

- Needs to cad/drawings oil bushings
- Tolerances fine - sheet tolerances

Cone Logger PP2

Time:

Pass/fail: **Conditional**

Chain guard:

Kick plate:

Bell Crank PP3

Time: 2 min

Pass/Fail: **Pass**

Chain guard PP1

Time:

Pass/fail: **Pass**

Timeline Tracker

Wednesday, August 6, 2025 6:03 PM

Sam's first draft of critical dates:

August 6 - Design Start lol
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October 9 - Priority A Circuits Design Freeze LV and HV
October 9 - Preliminary Design Review (VD + Aero)
October 10 - Preliminary Design Review (EV Power + Low Voltage)
October 23 - FSAE June Lottery Round 1
October 24 - Approximate SES Release (This time surely)
October 27 - Preliminary Design Review (VD + Low Voltage)
October 28 - Preliminary Design Review (EV Power + Aero)
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December 15 - Start of Winter break
January 12 - End of winter break
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January 12 - First Day of Spring Semester
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March (*) - SCCA Atlanta Event 1
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March 27 - Aero on the Car + Fully Rules Legal
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Shit figured out under each design review:

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- Subgroup goals
- Design Scope and manufacturing prep
- Projects that are for sure happening

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- Suspension configuration
- Chassis Configuration

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- Manufacturing plan and feasibility
- Testing plan for each subgroup
 - o Data Acq. Necessary

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- Create designs for items that need to be fixed for legality or reliability

August 18 - Big Order 1*

- Machining Tooling
- Wheel Hub Stock
- Wheel Insert Stock
- Foam Mold Stock
- Resin and Bagging

October 6 - SES Design Push*

- Aero Mounting
- Accumulator Mounting
- Suspension inboard Nodes
- Ergonomics chassis design

Proposals Necessary for SES Design Push:

- Frame
- Lower Container
- Module Design
- Accumulator Mounts
- Rear Wing Mounting
- Front Wing Mounting

October 20 - Big Order 2*

- Midwest Steel Order
- VR3 - Chassis + Suspension
- DigiKey
- JLC
 - o Team Card
- Wiring (HV and LV)
- Hardware - Fasteners
- Consumables

Items to be done before Winter Break:

- Rolling Chassis
 - o Wheel assemblies
- Accumulator Box
 - o Acc Mounts
- Module Plastics
- Busbars
- PCBAs
 - o Bring up Phase

Shit to do during Winter Break:

- Chassis Torsion Testing
- Module Assembly