**Virginia Motorsports Technology Committee**

Meeting Agenda & Minutes

*Date and Time*: 4/8/2021, 4 PM

*Next meeting*: 4/15/2021, 4 PM

**Agenda**

1. Discussion & Other Topics
   1. Tasks
      1. **Vishal**
         1. Templates on Google Slides for Presentations/Tutorials
      2. Documentation server for (F)(B)SAE (**Daniel/Ian**)
         1. <https://drive.google.com/drive/u/1/folders/1qwrWyGgBfoQFp-Ki8S_G30EEWB74GGd6>
         2. Research AWS and Mediawiki
            1. Maybe see if it’s been done before
      3. Public website updates (**Daniel**)
         1. Update FSAE Page
            1. See: formula 2020-2021 drive folder
            2. <https://drive.google.com/drive/folders/1-Qox9OjoV1zv5MSgM7wsvVBKRz4n3G2h?usp=sharing>
         2. **Touch up(?) alumni jobs page** 
            1. Ask Blake G for alumni data
            2. See: alumni 2020-2021 drive folder
            3. <https://drive.google.com/drive/folders/1lAmWSBmJJi_L-3e6Hd5OTeyYWY6k2i_G?usp=sharing>
   2. Purchase things ideas
      1. RGB for shelving or one of our competition cars
         1. Estimate: 20-40$?
         2. <https://www.adafruit.com/product/1138?length=1>
         3. Remote-controlled:
            1. <https://www.ebay.com/itm/65FT-LED-Strip-5-20m-Lights-5050-RGB-Color-Change-Remote-for-Bedroom-TV-50FT-Set/353361639339?hash=item5245feb7ab:g:hxoAAOSwbahgN5lc&var=622564408761> - $30, 20M, wall plug
            2. <https://www.ebay.com/itm/65-6-ft-RGB-5050-Bluetooth-Led-Strip-Lights-SMD-24-Key-Remote-12V-DC-Power-Kit/363298972248?hash=item54964e6258:g:Hq4AAOSwHYBgJAta> - 22$, 20M, 12V
            3. <https://www.ebay.com/p/933922483?iid=224055363854&var=522824030009> 17$, 10M, 352
         4. Addressable
            1. [https://www.amazon.com/Addressable-Speclux-Magnetic-Lighting-Motherboard/dp/B08212VVGS](https://www.amazon.com/Addressable-Speclux-Magnetic-Lighting-Motherboard/dp/B08212VVGS/ref=asc_df_B08212VVGS/?tag=hyprod-20&linkCode=df0&hvadid=416884860702&hvpos=&hvnetw=g&hvrand=10319663218057631402&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9008602&hvtargid=pla-870187259489&psc=1&tag=&ref=&adgrpid=97671771327&hvpone=&hvptwo=&hvadid=416884860702&hvpos=&hvnetw=g&hvrand=10319663218057631402&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9008602&hvtargid=pla-870187259489) 2-3ft, 20$
            2. <https://www.mouser.com/ProductDetail/SparkFun/COM-14015?qs=FNcb6ahWXRzlT%2FR8nUXl%252Bw%3D%3D&mgh=1&gclid=EAIaIQobChMInaah5dO67wIVCuOzCh1OMgtIEAQYCiABEgJNdvD_BwE> - 16$, 1M
            3. [**https://www.ebay.com/itm/WS2812B-5V-5050-RGB-LED-Strip-1-5M-30-60-144-150-300-Leds-Individual-Addressable/203299772642?hash=item2f559c58e2:g:sGQAAOSwRjxcCfKf**](https://www.ebay.com/itm/WS2812B-5V-5050-RGB-LED-Strip-1-5M-30-60-144-150-300-Leds-Individual-Addressable/203299772642?hash=item2f559c58e2:g:sGQAAOSwRjxcCfKf) **- $25, 5M**

5M 300 LED, non-waterproof

* + 1. Microcontrollers to control lights
       1. ESP32
          1. <https://www.amazon.com/s?k=esp32&i=electronics&ref=nb_sb_noss_2>

~5/10 each

* + - * 1. <https://www.amazon.com/MELIFE-Development-Dual-Mode-Microcontroller-Integrated/dp/B07Q576VWZ/ref=sr_1_6?dchild=1&keywords=esp32&qid=1616704458&s=electronics&sr=1-6>
      1. ***Double check to see if this is doable/how easy (should be) on an ESP32***
    1. SSDs for computers in team room?
       1. Specs: 2.5” SATA SSD, maybe 120-240 GB (unless larger ones aren’t too much pricier) (Buy the cheaper one)
          1. [https://www.amazon.com/PNY-CS900-120GB-Internal-Solid/dp/B0722XPTL6](https://www.amazon.com/PNY-CS900-120GB-Internal-Solid/dp/B0722XPTL6/ref=sr_1_8?dchild=1&keywords=sata+ssd&qid=1616098685&sr=8-8)

PNY 120GB, $20

* + - * 1. [https://www.amazon.com/Kingston-120GB-Solid-SA400S37-120G/dp/B01N6JQS8C](https://www.amazon.com/Kingston-120GB-Solid-SA400S37-120G/dp/B01N6JQS8C/ref=sr_1_4?dchild=1&keywords=sata+ssd+120gb&qid=1616098881&sr=8-4)

Kingston 120GB, $25

* + - * 1. Brackets

[**https://www.amazon.com/Holder-Mounting-Bracket-Drive-Adapter/dp/B07Y818K6N**](https://www.amazon.com/Holder-Mounting-Bracket-Drive-Adapter/dp/B07Y818K6N/ref=sr_1_7?dchild=1&keywords=3.5+to+2.5+bracket&qid=1616098935&sr=8-7)

$4.99

[~~https://www.amazon.com/Mounting-Bracket-SNANSHI-Adapter-Holder/dp/B0183FSG68~~](https://www.amazon.com/Mounting-Bracket-SNANSHI-Adapter-Holder/dp/B0183FSG68/ref=sr_1_2?dchild=1&keywords=3.5+to+2.5+bracket&qid=1616098935&sr=8-2)

2 pack 5.99, 4 pack 10.99

* + - 1. 1 Dell Desktop (Fuck Zack Berman)
         1. Bracket?
      2. Hella iMacs (3) (1 downstairs (21.5”), ~2? in the team room (1x 21.5”, 1 27”)
         1. Should be 2.5” Hard Drive I wanna say (21.5 inch are 2.5”, 27” may be 3.5” and need an adapter)
         2. Adhesive for the screen (27”)

[https://www.amazon.com/Replacement-Adhesive-Sticker-Opening-27-inch/dp/B07GX8DFNB](https://www.amazon.com/Replacement-Adhesive-Sticker-Opening-27-inch/dp/B07GX8DFNB/ref=sr_1_2?dchild=1&keywords=imac+adhesive+strips+27&qid=1616099361&sr=8-2)

$10, includes cutty wheel

[https://www.amazon.com/Padarsey-076-1444-Display-Adhesive-Compatible/dp/B088YMXSR4](https://www.amazon.com/Padarsey-076-1444-Display-Adhesive-Compatible/dp/B088YMXSR4/ref=sr_1_3?dchild=1&keywords=imac+adhesive+strips+27&qid=1616099361&sr=8-3)

$7, does not include cutty wheel

* + - * 1. Adhesive for the screen (21.5”)

<https://www.amazon.com/TKDMR-Replacement-Display-Adhesive-Strips/dp/B08L1166KZ/>

* + - * 1. Hinge for iMac

Can Apple fix it under warranty? Is that still a thing?

* + - 1. The HP Desktop Blake is using
      2. Estimate: 100-**200**$?
    1. **Bluetooth AUX Adapter x2-3 (Depending on price?)**
       1. **Estimate: 30-50$**
       2. ~$20 Price range
          1. [https://www.amazon.com/Mpow-Bluetooth-Receiver-Cancellation-Assistant/dp/B086KY7MCY](https://www.amazon.com/Mpow-Bluetooth-Receiver-Cancellation-Assistant/dp/B086KY7MCY/ref=sr_1_1_sspa?dchild=1&keywords=bluetooth+aux+adapter&qid=1616098885&sr=8-1-spons&psc=1&smid=ATG2O6TUMZHJW&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUEzOTdPVzJBQ1VaUFFJJmVuY3J5cHRlZElkPUEwNDk4OTUxQk1QUkNWTkMwSjRJJmVuY3J5cHRlZEFkSWQ9QTA4ODkwNzIzRVJFTFhTUUlQVFgwJndpZGdldE5hbWU9c3BfYXRmJmFjdGlvbj1jbGlja1JlZGlyZWN0JmRvTm90TG9nQ2xpY2s9dHJ1ZQ==)
          2. [https://www.amazon.com/Upgraded-Bluetooth-Cancelling-Headphones-Hands-Free/dp/B08KY684PB](https://www.amazon.com/Upgraded-Bluetooth-Cancelling-Headphones-Hands-Free/dp/B08KY684PB/ref=sr_1_2_sspa?dchild=1&keywords=bluetooth+aux+adapter&qid=1616098885&sr=8-2-spons&psc=1&smid=A3EB9MDGLD5JX3&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUEzOTdPVzJBQ1VaUFFJJmVuY3J5cHRlZElkPUEwNDk4OTUxQk1QUkNWTkMwSjRJJmVuY3J5cHRlZEFkSWQ9QTAxNzkzMDczUjJPS1JFSUhGUVNCJndpZGdldE5hbWU9c3BfYXRmJmFjdGlvbj1jbGlja1JlZGlyZWN0JmRvTm90TG9nQ2xpY2s9dHJ1ZQ==)
       3. $10-15 price range
          1. [https://www.amazon.com/VicTsing-Bluetooth-Transmitter-Hands-Free-Assistant/dp/B07SK8YK8L](https://www.amazon.com/VicTsing-Bluetooth-Transmitter-Hands-Free-Assistant/dp/B07SK8YK8L/ref=sr_1_8?dchild=1&keywords=bluetooth+aux+adapter&qid=1616098885&sr=8-8)
          2. [https://www.amazon.com/MiiLink-Bluetooth-Receiver-Microphone-Streaming/dp/B08HZ4LKT2](https://www.amazon.com/MiiLink-Bluetooth-Receiver-Microphone-Streaming/dp/B08HZ4LKT2/ref=sr_1_9?dchild=1&keywords=bluetooth+aux+adapter&qid=1616098885&sr=8-9)
          3. [https://www.amazon.com/Mpow-Bluetooth-Streaming-Hands-Free-Assistant/dp/B084RGVL62](https://www.amazon.com/Mpow-Bluetooth-Streaming-Hands-Free-Assistant/dp/B084RGVL62/ref=sr_1_15?dchild=1&keywords=bluetooth+aux+adapter&qid=1616098885&sr=8-15)
          4. [https://www.amazon.com/TOKSEL-Bluetooth-Receiver-Cancelling-Handsfree/dp/B08CXMW87X](https://www.amazon.com/TOKSEL-Bluetooth-Receiver-Cancelling-Handsfree/dp/B08CXMW87X/ref=pd_di_sccai_2?pd_rd_w=SJv9j&pf_rd_p=c9443270-b914-4430-a90b-72e3e7e784e0&pf_rd_r=2EBA5EXC6R1KNCTKSY8E&pd_rd_r=492a8303-511c-4d0a-a612-8fe3b4033550&pd_rd_wg=zU0sv&pd_rd_i=B08CXMW87X&psc=1)
       4. Perfectly good $9 one: [link](https://www.amazon.com/Bluetooth-Boltune-Headphones-Hands-Free-Microphone/dp/B07TCDS2JB/ref=psdc_1293687011_t2_B08MJ96WK4)
    2. ~~Wood for shelving~~
       1. Varnish or something to coat the wood?
          1. <https://www.homedepot.com/c/ab/types-of-wood-finishes/9ba683603be9fa5395fab90c31963a4>
          2. <https://www.diynetwork.com/how-to/make-and-decorate/decorating/wood-finishes-101>
          3. cheap polyurethane or cheap shellac should run you about $10 per can on the low end
       2. Screws or some dope ass joints?
          1. Like the japanese joints, not weed joints

Waterjet the wood?

* + 1. ~~Printer paper, how much do we have left?~~
       1. Idk the running price of paper atm
       2. <https://www.amazon.com/AmazonBasics-Bright-Multipurpose-Copy-Paper/dp/B07K8WHH5J/ref=sr_1_6?dchild=1&keywords=printer+paper&qid=1616098135&sr=8-6>
          1. $28
       3. <https://www.amazon.com/dp/B072FVQNWM/ref=twister_B08X8WRDJN?_encoding=UTF8&th=1>
          1. ~$29
    2. ~~Printer Ink for Big Brother?~~
       1. Find model of it (DCP-8085DN)
          1. <https://www.amazon.com/s?k=tn-650&ref=nb_sb_noss>

~20-30$ it looks like, find one with good reviews

* + - 1. Estimate: 25-40$?
    1. 12v Battery USB hub
       1. [https://www.amazon.com/Converter-Battery-8A-Regulator-Suitable/dp/B08MCZNYZN](https://www.amazon.com/Converter-Battery-8A-Regulator-Suitable/dp/B08MCZNYZN/ref=pd_vtp_12?pd_rd_w=yV4JB&pf_rd_p=5c360d95-bc02-444b-9d6e-b8f4fe9d33b5&pf_rd_r=XKVMBW6TD782C4HNSXJR&pd_rd_r=0c85bf48-9585-4bf0-8a10-c86e4d8d5424&pd_rd_wg=ctGkA&pd_rd_i=B08MCZNYZN&psc=1)
       2. 4 USB slots, $15