**Virginia Motorsports Technology Committee**

Meeting Agenda & Minutes

*Date and Time*: 4/29/2021, 4 PM

*Next meeting*: 5/6/2021, 4 PM

**Agenda**

1. Discussion & Other Topics
   1. New things to do @ Lacy immediately
      1. Remount the TV’s
         1. Nick/Miller came back and took their TV/Speakers back (was theirs to begin with) so we can shift one of the TV’s in the meeting room over to the team room
            1. Also may need to center the TV in the meeting room
   2. 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. Github based documentation server
            1. Free, comprehensive (it’s what other teams do as well)
      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**
   3. 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