

LAFAYETTE

COLLEGE

Electric Formula SAE 2019-2020

Easton, Pennsylvania 18042-1775

FSAE Electric Formula Car Minutes – 3:10, AEC 429, January 27, 2020

- **SCADA**
 - New version of SCADA in Python
 - Works about the same of the current SCADA, need to talk with Dwayne more
 - CAN signal to drivers display will be worked on this week
- **GLV**
 - Board draws a lot of current, looked into it and chips were upside down
 - GLV testing is almost done, then can hook it up to dyno room
 - Need to look at wiring in box, Nadovich will do it
- **TSI**
 - Fixed problems with TSI, ran tests that passed
 - Want to test TSI with high voltage
- **TSV**
 - Tim got parts manufactured for prototype battery, need to order more material. Jack is working on outside panels
 - Moving forward want to finish building by end of week, TSV back on track?
 - 99% of boards ordered from China, parts are coming
 - Want prototype segment done and working with the AMS
 - Cellman parts went out today
 - Need to remember Electrical Delivery Date, firmware needs to be done soon
- **Chassis**
 - Finish up attenuator data report, almost done (tomorrow or wed)
 - Put on new side impact, should be done in a week
 - Make new battery boxes, two weeks
 - Revised battery boxes, ends of tubes need to be finished, is fully designed
- **Interconnect**
 - Shortened some of the wires in the dyno room and made new wires for the cockpit
 - Print dyno room diagram smaller
 - Carman- ordered parts, all sheet metal is folded up just need to put it together
 - There is a design for motor controller box, just needs to be approved
- **Drivetrain**

- Got motor shaft mounted
- **Suspension**
 - Redesigned both the upper and lower a-arm mounts
 - Want to finish rolling chassis
 - Machine shop is very light right now
- **Pedals**
 - Will work on getting pedals mounted in car
 - Figure out where reservoirs will go
 - Pedals are still pretty far ahead
 - Need pedals to test in the dyno room, potentiometer, brake switch, BOT switch, electrical interface
 - Feng will help coordinate it
- **Cooling**
 - Nadovich redid the cooling interface, changed gendering the cooling connections into the motor
 - Figure out where everything will be mounted
- **Management**
 - Interim plan and ATP
 - Schedule an ATP review
 - Site pre-registration due 2/14
 - Impact attenuator report due 2/7
 - Revise WBS - 2/7

Progress

- Made 4% progress this past month
- Carman enclosure done in next week
- All hands on deck, ECE's have 6 weeks until ECD
- TSI made the most progress over everything
- SCADA did everything twice, now have the same system
- Firmware is our most behind part

- IPRS submission will be changing
 - What have you completed and what will you be completing next week