

# LAFAYETTE COLLEGE

*Electric Formula SAE 2020-21*

Easton, Pennsylvania 18042-1775

## **FSAE Electric Formula Car Meeting Notes – 3:10, Zoom, November 2nd, 2020**

### Project Discussion - Prof. Nadovich

- CatME
  - Must do CATME Surveys, count as an assignment
  - 1 more this semester, 3 more next semester
  - Put in effort to push car development forward = decent grade
  - Design Criticization **does not** reduce grades
- Focus on building a car not the grades
- Poster Session
  - Split into 3-4 students in group
  - 5 min for part of presentation
  - Must be cohesive - discuss among peers
  - Power Points on different systems
  - Nov 29th Due, Nov 30th Presentations
  - Faculty travel to breakout rooms, 20min ask questions
- Mid Year progress Presentation Waived - TD008

### Check-Ins - Zach

- Battery-Packs
  - WBS Rework - 4 Categories
  - 5.1, 5.2 Working Towards
  - Tweak Inventor for Isolation Issue
  - 5.2 Debug I2C Single Cell Man
  - Start Work on PacMan Firmware

- CarMan
  - Ben & John - enclosure
  - 4.3.1 - KiCAD schematics for boards, design review tomorrow
  - PCB layouts done this week, all to be manufactured this semester
  - 4.12 BOM updates - changing designs and choosing new parts so lagging behind
- EPAL
  - Redesigned Button array and Front Dash panel Inventor Models
  - 6.1 Prioritize Side Panels, Inventor models
  - Front Dash PCB WBS 6.4
  - Started Software Design, in talks with SCADA 6.5.1
  - Design Review Week from tuesday
- Drivetrain & Cooling
  - Had design review, slight adjustment to side bracket
  - Drawing for manufacturing worked on
  - Almost 100% Inventor and parts ordered
  - Cooling design review
  - BOM finalized, done changes
  - Another Design review tomorrow afternoon, almost done with overdue items
  - Test plan working on soon
- Frame/Chassis
  - 9.1 Pedals assembly complete, functions correctly
  - BOM for pedals from inventor list
  - Price quote not out, design changed 3 times
- Interconnect
  - Design Review tuesday
  - Master list for cables progress continuing
- SCADA
  - Website Updated with software diagrams
  - 7.3,7.4 Working calibrator function and logger
  - Almost ready to demo CAN integration in DYNO room
  - 7.6 active system control simulated
  - Watcher needs to be tested
  - GUI config almost complete
  - Brief Demo next Monday

- Steering, Suspension, Braking
  - Communicated with Frame about shock mounts
  - 13.2 Kinematics geared towards test plan, changed later, however have made progress towards setting portion
  - 10.1,10.2 not much work left, finalize it
  - Good idea on parts ordered and needed for suspension
  - Can demonstrate in near future
- Management
  - Continuing Purchasing
  - Updating Website
  - No more midweek check-ins, Devin pinging about website updating
  - Put out PSL, need to include purchasing reports

#### Upcoming Deadlines

- Same deadlines
- Safety Plan needed, Andrew reaching out to people about it
  - Look at last years but to include info from this year
- Submit purchase orders in reasonable time