

LAFAYETTE

COLLEGE

Electric Formula SAE 2020-21

Easton, Pennsylvania 18042-1775

FSAE Electric Formula Car Meeting Minutes– 3:10, Zoom, November 23rd, 2020

Note: Please talk about what you accomplished this past week as well as your plans for finals/winter break

- Battery-Packs
 - Cellman
 - We need to be able to program the boards ASAP. 40 boards need to be tested.
 - We do not have a computer that has linux. (nad can provide)
 - Pacman
 - Ready to be programmed
 - Need to borrow Raspberry Pi for testing
 - Board onto Canbus for testing
 - Possible display changes (for winter)
- CarMan
 - Design review complete
 - GLV & Logic schematics complete and ready for feedback
 - Winter will be used for:
 - Ordering
 - Manufacturing
 - Firmware development
 - TLDR boards ready for next semester
 - Old firmware TSI could be hooked up for SCADA
 - Fault Light issues still exist
- EPAL
 - Software parts (during winter)
 - Side Panels submitted before finals week
 - 3D printed pieces for finals week

- Tractive system and Brake Lights will not be complete by Feb 8th
- Drivetrain & Cooling
 - Cooling
 - Waiting turn to put assembly in full car model
 - Good place by Feb.
 - Drivetrain
 - All parts to be manufactured by the end of break
- Frame/Chassis
 - Seat & Harness
 - Making adjustable seat
 - Body Panels
 - on hold for next semester
 - Rear Frame
 - Drawing difficulties, to be completed by the end of the day today
 - Firewall
 - Drawings have been submitted
 - Full Car Model
 - By Feb 8th, New rear frame should be welded in and ready for mounting
 - **Other subsystems mounting tabs are those subsystem's responsibility**
- Interconnect
 - Cables manufactured over break
 - Cable countdown for meetings
 - **Whole team to responsibility to get those cables manufactured**
 - Cables to be inventories over break so we can reuse
 - Shop can make cables if they are given designs
- SCADA
 - over break
 - Integration between dashboard over break
 - USB driver
 - Parallel IO drivers
 - IMU
 - Draft designs for post processing
- Steering, Suspension, Braking
 - Implementation on full car model by the end of this week

- Over break
 - Optimum Kinematics & test plan adjustments
 - Mounts manufactured after finals
- Management
 - Website structure complete by next semester
 - Revising schedule over break

Upcoming Deliverables

Poster session videos due 29th at midnight

- Document about the videos are in the root folder of the google drive
 - Another revised doc will be made available by management
- Questioning sessions in breakout rooms (Dec. 1st 12-3)
- NOT ON THE AGENDA
 - Test plan deliverables
 - Top Level completed by system engineers expect to hear from them soon
 - Project Focus and WBS deadlines
 - Goal is no longer competition but a working car