

LAFAYETTE

COLLEGE

Electric Formula SAE 2020-21

Easton, Pennsylvania 18042-1775

FSAE Electric Formula Car Agenda – 3:10, Zoom, October 5th, 2020

Team Name → FSAE

Keep track of purchases more in depth

Aggregate purchase requests (week by week)

Understand the price of shipping (some things cost more to ship than to purchase)

Monday Check-Ins

- Battery-Packs

ECE → Finished Wiring Diagram. Waiting on feedback from professors to create a testing system.

MECHE → Collected and stored parts, there should be enough to make two accumulators, not allowed to work in person so they need to wait till next semester. Get Nadovich a parts list so he can inventory.

- CarMan

Three boards

- GLV
- TSI
- LOGIC

Table of connections has been completed. Looking to complete high level design.

State of Diagram (Troy Coleman) needs to be updated with top level

- EPAL (Dashboard)

Outlines preliminary designs of systems

- Mechanic
- Electrical
- Hardware

Wiring Diagram between system → cockpit panel

Finish wiring diagram by the end of next week

Hardware Models under construction

- Drivetrain & Cooling

Cooling → Working on whole system inventor model

- Modeling tubes
- Mounting Solutions
- Wiring Diagrams
 - Push to website
 - Get profs to look at

Drivetrain

- Refining 3d model
 - Parts interface
 - Mock rear wheel bearing
 - Model is nearly ready
 - Waiting for parts and Company to give more info on parts

- Frame/Chassis

Seat chosen (2017-2018 Racing version)

- Modeled on inventor

Harness Chosen

SES underway

- Interconnect

Updating CARMAN Lid and looking at CARMAN mounting

Top level diagram is on hold → waiting on carman design to be confirmed

- SCADA

Driver class → call sorters for protocols

- Can sorter
- I²C sorter

Software diagram updated

Purchase order for new IMU (needed a new address)

GUI → updated tool to add and edit data

Fixed display bugs

NAD → wants demo of SCADA asap (next couple of weeks)

- Steering, Suspension, Braking

Finished Optimum Kinematics and adjusted parameters accordingly

Looking to run a full car analysis

SES

- Management
 - New WBS revision
 - Subsystem meetings
 - System Engineer meetings
 - Purchasing Procedure Updates
- TD002

Upcoming Deliverables

- SES Early Deadline: (10/14) 9 Days
- ID001 Statement of Individual Goals (10/19) 14 days
- TD002 Design Proposal (10/19)
 - One Page submission from each team ([Example](#))
 - Design updates (past month)
 - Team members
 - Progress
 - Diagrams/Visuals
 - Get it in by next week
- Five Minute Status Report (10/19)
- ESF-1 Early Deadline (10/21) 16 Days

WBS Updated and Finalized

- To Be included in TD002

[WBS LINK](#)

What is rolling Chassis (HELM) → frame, suspension, tires, steering, brakes(doesn't mean brake lines),

Make sure work can be tracked in the WBS so we can reference it in meetings

Meet with management with WBS feedback

Dates and schedule in next 2 weeks