

LAFAYETTE COLLEGE

Electric Formula SAE 2020-21

Easton, Pennsylvania 18042-1775

FSAE Electric Formula Car Meeting Minutes – 3:10, Zoom, September 14, 2020

TD001 Conceptual & Preliminary Design Study

- Due in a week
- Management will formulate and ask specific questions about ideas for a budget
 - What do you need to accomplish your goals?
 - Nad - we don't know all the parts of the car yet. Are we including the pieces that exist or not?
 - Anchoring Bias - If no one knows what the number is, the first person who says a number sets where people think the budget should be
 - Helm - The current state of the project is not state of the art. You can talk about tesla, we should talk about the other teams in the comp → how fast? what do we need to do to compete and be considered state of the art
 - Management will keep in contact during its life cycle

Check Ins

Battery Pack

- ECE part → Preliminary work breakdown just got created this week
- MECHE → Waiting on chassis

Carman

TSI

- Physical testing on the board, ordered various cables
 - 5 main testing blocks, 2 completed, 2 partially, 1 waiting for a power supply
 - Results documented on drive
 - Throttle controller being focused on this coming week

GLV

- Rules change regarding IMD EMS fault lights, required a redesign that was completed. Being finalized this week.
 - Safety Loop diagram update, the live version is up on the website

Dashboard

- design review scheduled for friday, but feedback from subsystems required design to be updated
 - Met to formulate plan about goals for the dashboard
 - There are inventor files for the dashboard, this week the integration to the frame is be presented in a design review

Drivetrain & Cooling

- Cooling
 - decided reservoir pump and fan
 - Began work on a temperature control solution (TSI or scada?)
- Drive Train
 - Tweaks on drivetrain brackets
 - Made a basic model for data analysis
 - Shifting position of motor to a bracket

Frame/Chassis

- Met with subsystems, except motor controller for frame redesign, ready to speak on design for tuesday

Interconnect

- Side panels need to be checked for BRB issues and then they are ready for review
- Completed research and determined what connectors to use for the car

SCADA

- Text user configured to print data out on the terminal
- Completed high level software diagram
- Began implementation of configuration tool, (helping SCADA to be more user friendly)
- SSH set up for testing
- Nadovich wants to see demos
 - Look at the demos enumerated in the statement of work
 - Maintainability due soon
 - Demos set up to show nad on tuesday

Steering, Suspension Braking

- Keeping last year's mounting points
- Implemented suspension parts into inventor
- Steering parts in inventor
- Met with frame and assisted design to make sure it follows mounting points
- Rules document

System Engineers

Management

- Worked out draft of WBS for feedback, and have started to formulate a new version by tuesday

- Improved feedback survey
- Discussed website revisions
- Talked about slack limitations, website archive can be a solution

Team Photo

Tuesday at 12:30 on quad take picture

- Follow social distance rules

Maybe we do a collage?

Zoom is a possibility

Side Notes:

We are at the point where the college can buy things for you

Decide what we do with these meetings, are two of the overhead meetings a week really going to help the development of the car

Maybe friday is like lab in its structure