

LAFAYETTE

COLLEGE

Electric Formula SAE 2019-20

Easton, Pennsylvania 18042-1775

FSAE Electric Formula Car Meeting Minutes – 3:10, AEC 429, September 23, 2019

Scribe: Michael

Attendees: Simone, Leah, Clement, Jordyn, Cat, Phil, Tony, Tiger, Dwayne, Tim, Maureen, Carl, Gabe, Jon, Michael, Connor, Zach, Dan, Noah, Jack, Nick, Austin, Luc, Monserrat

- Send IPR in a PDF
 - Make sure to include descriptions in your IPR
- Scada
 - Completed
 - SC 4.1.1: space for dash display
 - Next Week
 - 5.1: Bi-weekly SCADA Update
 - 4.1.2: Design Dash Model
- TSV
 - Complete
 - 4.1: AMS design complete
 - 8.1.1: Charging design
 - 1.2.1.1: Outside Enclosure Designed
 - Next Week
 - 1.2.1.2: Design of the inside of the accumulator
 - 5.1.1: PacMan Firmware
 - 6.1.1: Choose the Display
 - 6.1.2: Display Spec
 - 4.2.1
 - Overdue
- TSI
 - Complete
 - 2.1.2.1: Board circuit schematic
 - 2.1.3: PCB layout finished
 - Next Week

- 3.2: Fix known firmware issues
 - 5.2: Cooling system test plan
 - 1.2: Approve Preliminary design
 - 1.3: Approve Final Design
- GLV
 - Completed
 - 1.2.1: KiCAD
 - 3.1.1: GLV Batt Approved
 - 5: Interconnect Design Complete
 - Next Week
 - 1.3.1: Board testing procedure
 - 1.3.2: Testing Fixture Design
 - Overdue - Try to get most of it done in the next couple of days
 - 1.2.2
 - 1.2.3
 - 1.2.4
 - 1.2.5
 - 3.1.2
 - 3.2.1
 - 3.2.2
 - Parts by Wed?
 - Board by Fri?
- Chassis
 - Complete
 - Made Contact with the manufacturer of the side impact pieces
 - 1.2.1: Bent arm side impact of chassis
 - Next Week
 - 1.2.2: Final Design for side impact pieces
 - 2.2.2: Design Battery Mounts
 - Overdue
- Drivetrain
 - Complete
 - 1.1.2: Differential adapter submitted
 - Next Week
 - 1.1.1: Differential disconnected from adapter
 - 1.3.3
 - Gear ratio calculation
 - Overdue
- Suspension
 - New simpler suspension
 - Complete
 - 2.1.0
 - 2.1.1: Uprights Clearances

- 8.1.1
 - 4.3.2: Design new A-arm Plates
 - 4.3.3: Updated inventor assembly
 - 1.1.1-1.1.3
 - 1.2.1-1.2.3: Disassemble front and rear hubs and inventory
 - 10.1-10.2: Measurements, inventor for each suspension
 - Next Week
 - 2.1.2
 - 3.1: Disassemble old brakes
 - 4.3.4: Create part drawing for A-Arm & plates
 - 4.3.5: Part Drawing approved and sent to Rob
 - Have everything sent to rob by thursday
 - Everything for the a arms
 - All the chassis pick up points
 - Mounts for the uprights
 - Goal: Front half of the car on the ground by fall break
 - Overdue
 - 1.6.1
 - 1.6.2
 - 1.6.3
 - Pedals
 - Complete
 - Next Week
 - Overdue
 - Interconnect
 - Complete
 - 1.1.1: Updated LFEC car/dyno system diagram
 - Next Week
 - 1.1.2: Post in AEC400&AEC134
 - 1.1.3: Update Weekly
 - Overdue
 - Management
 - Next Week
 - D001.1
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- Graphs should have a more absolute scale→ “see if we are actually working hard enough”- Nadovich
 - Create subplots of graphs to major milestones
 - Like rolling chassis
 - Can’t have chassis delivered on the same day as GLV
 - Each subsection has a different arrival time
 - Not every WBS item has the same value

- Jordyn make your graphs realistic and useful
- Everyone needs to revise budgets but it CAN'T BE MORE
- PDR- Mechanical Engineers 10/2
 - Need to be finalized
 - Put in updated drawings
 - Update info that needs to be updated
- Test Plans
 - ECE- Required testing is done by systems and cannot be given to subsystems
 - The system has to be tested as an integrated whole
 - The entire ECE system must be fully functional for systems test day in the DYNO room
- This week a group will be delegated for testing

Purchasing Requests

- Maureen will send out a general note regarding purchasing
- Folder in the google drive (Make sure to follow the naming format)
 - Format: *Date Formula Car ME or ECE*
 - Nadovich and helm Purchasing
 - Excel Doc with sections for vendor, etc
 - Seperate tabs in the spreadsheet for different suppliers
 - Make sure there aren't different spreadsheets covering the same supplier (Each supplier should have 1 spreadsheet)
 - Make sure to solicit the opinions of the professors before you submit the request
 - Then gets approved or rejected
 - Please put enough in the description so it is known what you are ordering
 - Maureen will be in charge of purchasing

Inventory

- Inventory officers need help with inventory
- Large parts should have quantity and location
- All hardware should be in the same location
- All suspension pieces should be in the same area
- Group items based on function or subsection
- Zach- Attempting to do inventory Monday Night 9/23

Project Management CDR, Friday, Sep 27th @3:10pm

Keep Updating the Schedule