

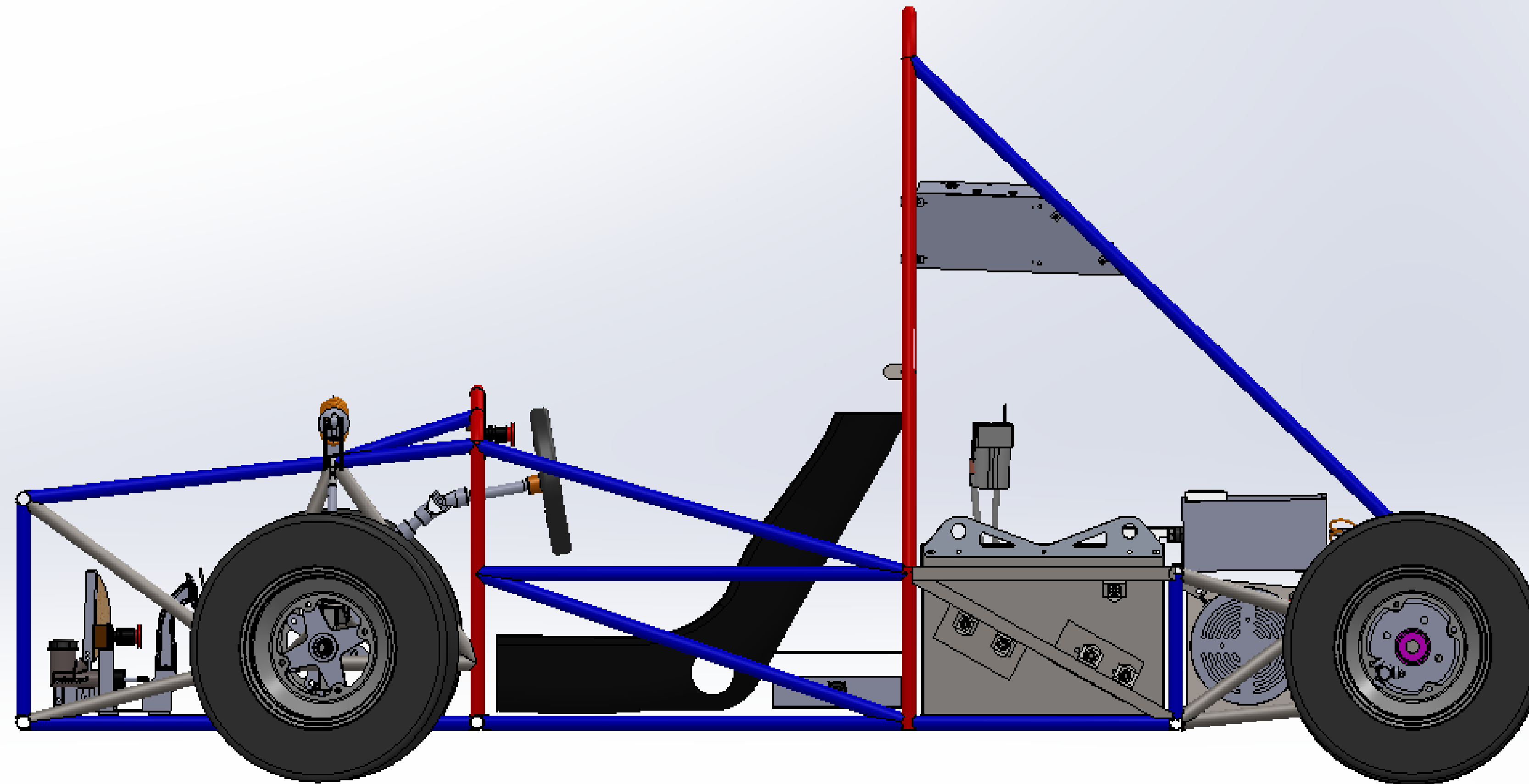
Anteater Racing FSAE Electric Thor

Goals

- Compete at FSAE Electric in June 21, 2017
- Pass technical inspection following all 1200 rules
- Compete in at least one dynamic event
- Complete running car 45 days before competition

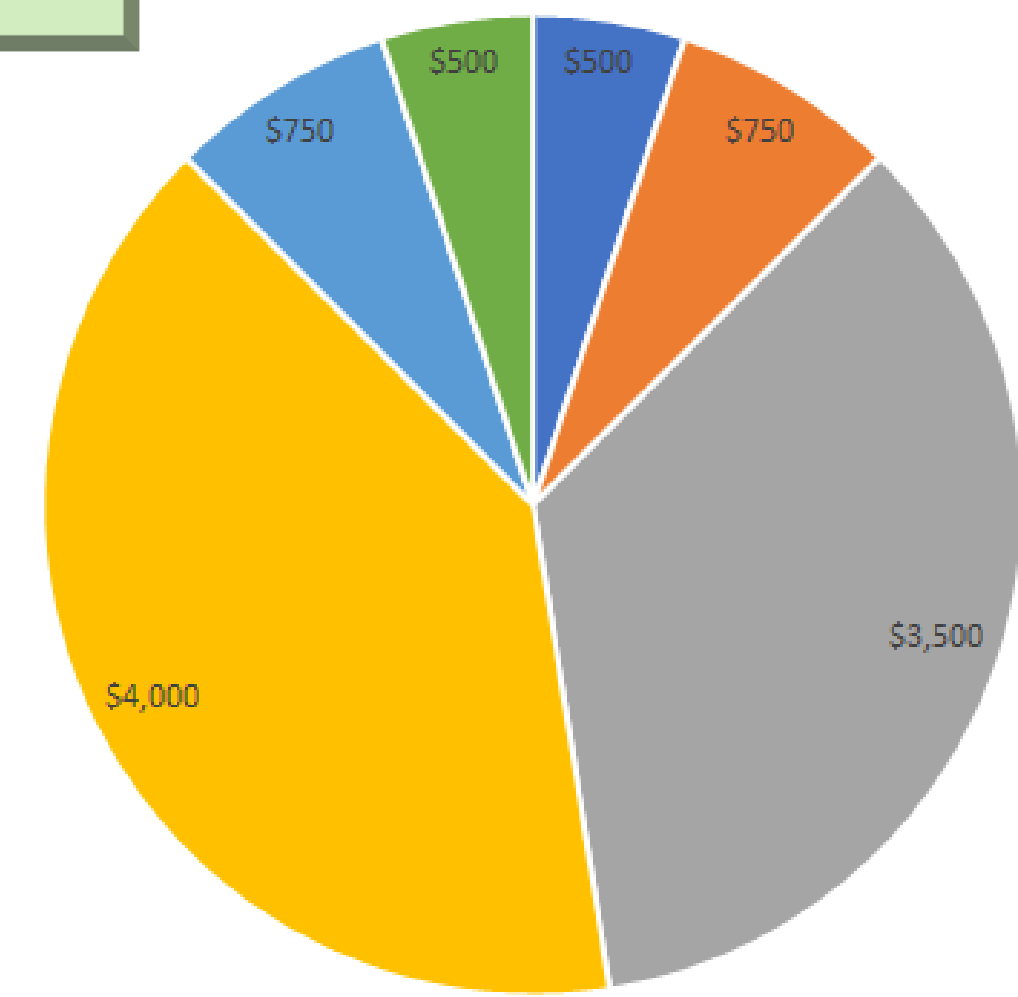
Requirements

Requirements are set based on the FSAE rules document, every single rule is a requirement the racecar must meet. The other requirement is to follow safe practices in all aspects of the project including manufacturing and testing.

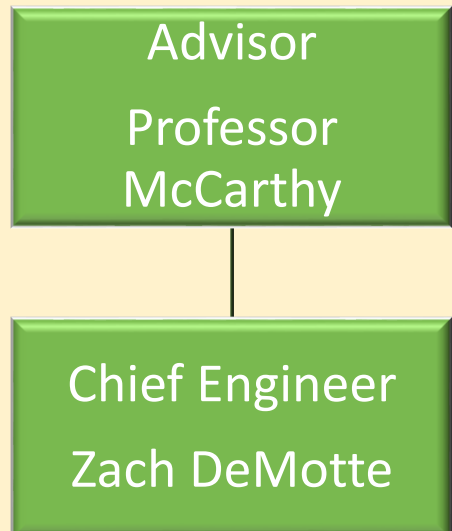


Budget

- Powertrain
- Suspension
- Electrical
- Batteries
- Chassis
- Human Interface

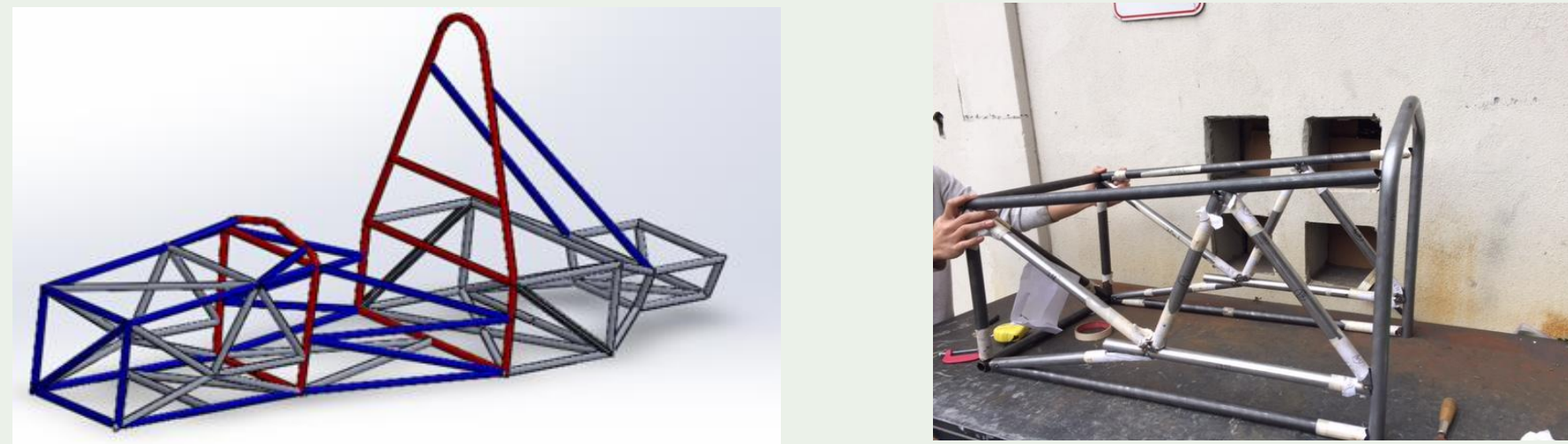


Team Structure



Chassis

Chassis began manufacturing at the start of the quarter. Chassis faced several set backs while manufacturing. However they have continued moving forward and are nearing completion of the chassis. The chassis team will work toward a fully welded chassis next quarter.



Suspension

Suspension design was finished this quarter and began manufacturing. The uprights and control arms are manufactured and antiroll bars will be added to the racecar this year.



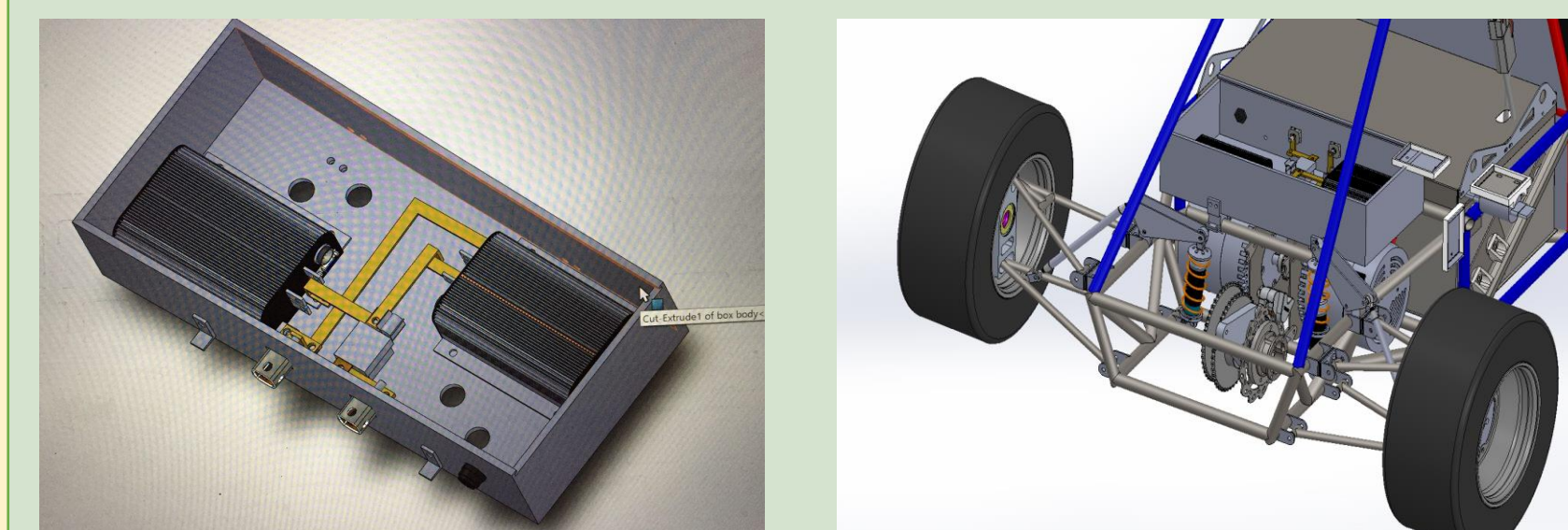
Human Interface

The human interface team is working on finishing designs for the dashboard and seat. Manufacturing has begun on the pedals, brakes system, and steering.



Powertrain

Powertrain finalized designs this quarter and began manufacturing. The powertrain uses two ME1003 motors at 72 volts and 500 amps. The racecar will be able to reach 50 mph using this set up.



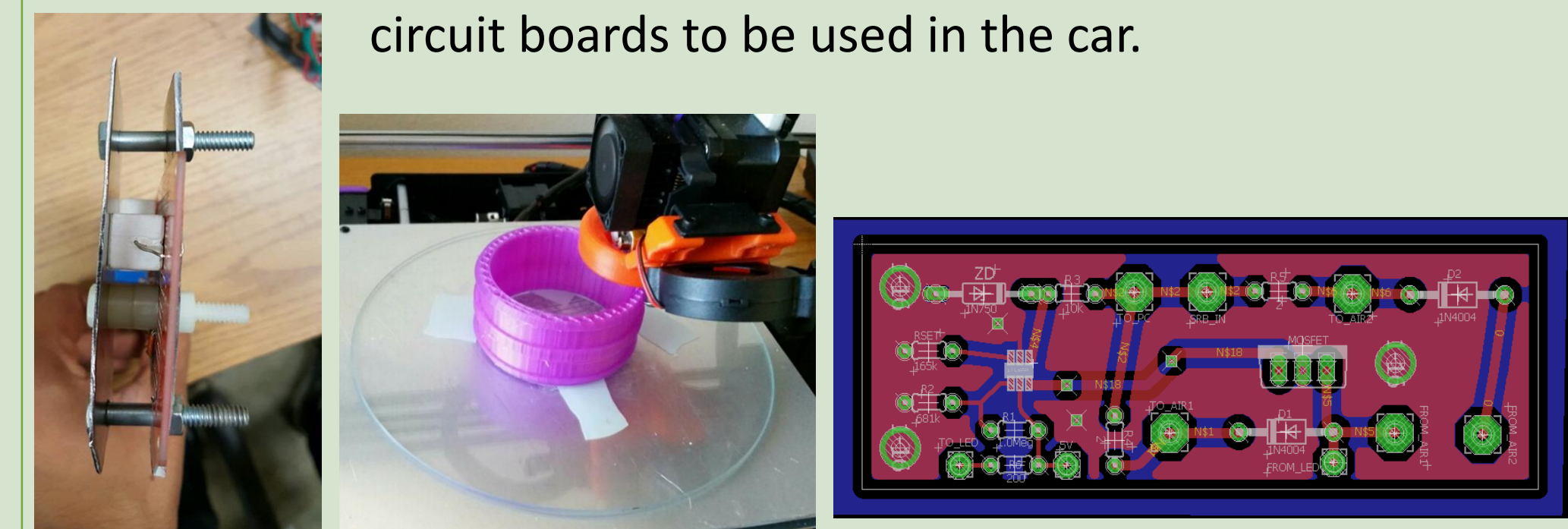
Batteries

Batteries team began manufacturing the battery box this quarter. Using the tacked box they have checked the fitting of batteries, relays, and fuses. The box will hold 21 batteries in total.



Electrical

The electrical system was tested frequently at the beginning of this quarter. Currently the electrical team is working on printing the circuit boards to be used in the car.



Electrical Lead
Xavier Dedenbach

Batteries Lead
Mark McCorkle

Chassis Lead
Peter Bui

Human Interface
Haoli He

Suspension Lead
Liam Buchanan

Powertrain Lead
Antonio Rojas

Team Engineers