

Minutes: 4-10-19

Minutes Review:

Everything is fine.

Newest Developments:

All of the parts have come in for the circuit, including the micro-controller.

We don't want the copper to oxidize, so see Mike the technician about a heat sink.

Review Progress on Individual Tasks:

Hai:

- Andy didn't have enough time to teach him with the simulations but has an example.
- Need a simulation by next week on Simulink, if help is needed text us on slack.

Armando: Have been working on the circuit design and created all the components.

- Need to design the amplifiers and voltage divider for the circuit and we have all the workings components to put it on the breadboard.
- Need possibly a block diagram of how we want to program this thing.

Val:

- Ripped the diodes out of the alternator and has six leads coming out, in delta configurations.
- Has alternator mounted to a piece of wood. Find prime mover.

Design Review: Presentation Style

Defining the project took a little while. We should have an explanation of how we defined the project, what the definition is, and where we are going. We should cover about all of this.

About 30 percent of the future like what this thing is going to look like when we land it and how we are going to get there.

Past: 70%

Future 30%

If motor drive for PWM, look for block diagram and for the ppm section. If just feeding it a couple high level numbers, that's good, because it PWM core will feed you a bit stream that you put into the driver.

Need six gate outputs, and field current output which is regulated by voltage. Another possible way is to control it by current.