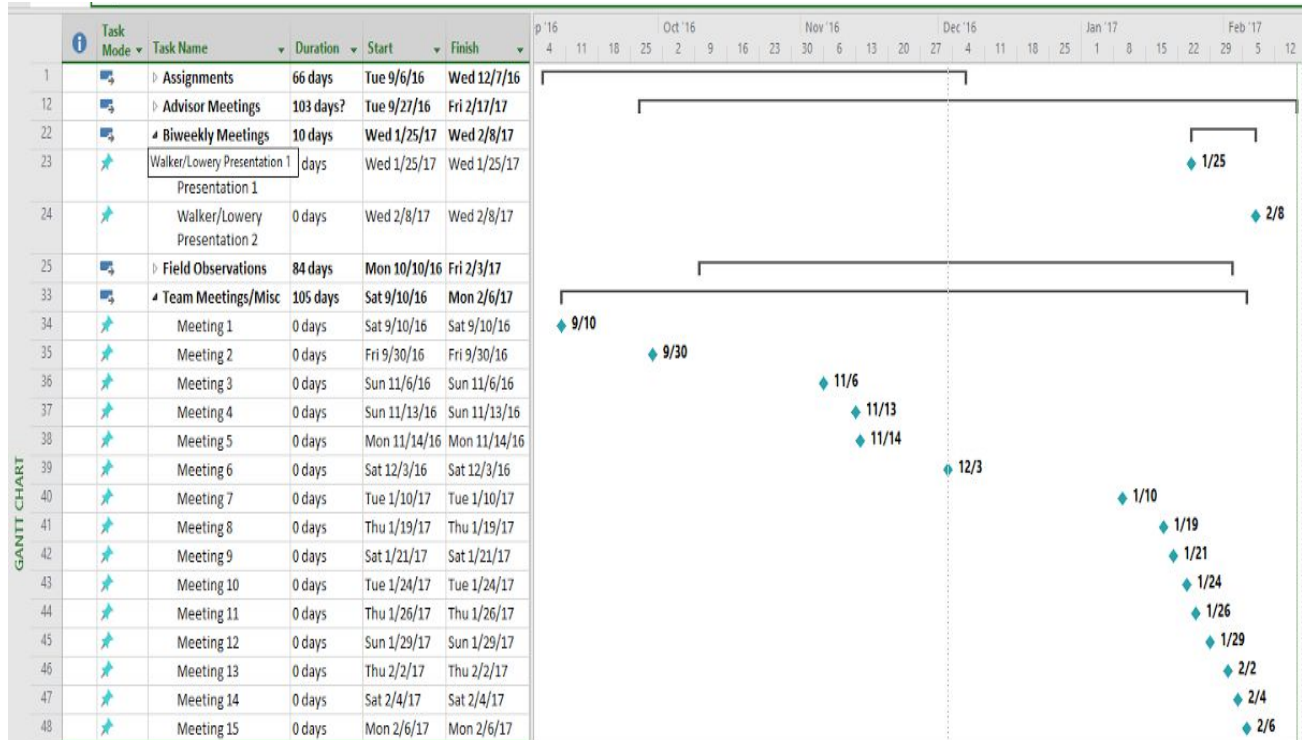


The issue we were presented with is that there is currently no toy power car capable of being operated by the large number of mobility-impaired children in the world. Our solution to this is to build a single modular toy power car, which will support children with a variety of conditions. We will donate to High Hopes Preschool and Pediatric Therapy Clinic in Franklin, TN at the completion of the project. This may not be a solution for the global issue at hand, but we believe it's a small step in the right direction.

Since our last update, we were able to gain a lot of traction in the way of the design and operability of the car. We were able to successfully turn on the car and get it to run in both forward and reverse. The circuit for the electronic parts was mapped out in a circuit diagram which will be helpful when we need to figure out how to add a motor controller, steering input jack, and possibly voltmeter monitor. We were able to meet several times the first week because of some constraints that were known in the second week. We ordered and receive a charger for the car from the manufacturer. A seat pad and tray (possibly for touchpad input) and two harnesses were ordered and received as well. The design for many of the modular components are being finalized so that they can start being implemented.

There weren't really any setbacks over the update period because everything has been going quite smoothly. The only setback really was missing some meeting times that we are normally available. We did have to skip out on some parts because of not having them approved so that was one issue. Another problem is that we are behind on some of our milestones, so we need to catch up on those to make sure we are ready for design day.



All of this aside, we believe that once our parts come in and the car is working, we will be able to complete the car by the April 25, 2017 deadline. As for budget, the project may become more expensive than we anticipated if we buy a remote control, but otherwise most of the parts are very cheap. We luckily have a great deal of supplies already in stock thanks to our advisor's lab and generosity, as well as the new Makerspace.