10/11/15 – 10/17/15

**Accomplished**: Set up the Github page learned how to use it. Got familiar with git bash and git command line in general.

10/18/15 – 10/24/15

**Accomplished**: Met with the team to test Arduino code and the ultrasonic sensors to make sure it was sufficient for the project. We found that the ultrasonic sensor is accurate upwards of 2.5m.

10/25/15 – 10/31/15

**Accomplished**: Learned how to use EagleCAD to make the board from the schematic. Designed the board and debugged various issues and DRC errors until it was error free.

11/1/2015 – 11/7/2015

**Accomplished:** Downloaded Atmel studio to help with programing the microcontroller. The group got together to do initial tests on the range sensors and we made sure the frequency of the resonator we were using was sufficient.

11/8/2015 – 11/14/2015

**Accomplished:** We ordered the necessary parts for the board and sent the board off to get manufactured.

11/15/2015 – 11/21/2015

**Accomplished:** We received the parts and were still waiting for the boards to be manufactured.

11/22/2015 – 11/28/2015

**Accomplished:** We received the PCB’s from the manufacturer and began to learn how to apply solder paste, place components and baked in the oven. Shadman and I got together and populated two boards initially. We discovered that some of the parts were of the wrong size and we ordered new ones to correct for this. Other than the resonator (which was to small for its pads), everything on the board worked fine.

11/29/15 – 12/5/15

**Accomplished:** The new parts arrived and the whole group got together and populated the other two boards. All components fit perfectly. We built the cane prototype using PVC pipe.

12/6/15 – 12/10/15

**Accomplished:** This week we spent most of the time debugging various problems with the prototype and fine tuning the code. Next we got to work on the presentation and the various documentation that needs to be turned in.