CE-490: Senior CE Design Project
Professor Foster
2/18/2022

Team Members:
Raymond Blair Jr.
Hayvin Bolton
Ben Kepner

The things we have accomplished the last two weeks (2/7 - 2/18) are the following:
- ○ Obtained PCB Boards
- ○ Button Code (preliminarily done)
- ○ Made Remote Perf Board
- ○ Began working on motor code
- ○ Ongoing Documentation

For the next two weeks (2/21 - 3/4) we would like to achieve.
- ○ Build up design
- ○ Fan Code
- ○ Motor Code

Currently we are struggling with the following:
- ○ OOOps we had someone sick ("It was not a good week for me"-Hayvin) and they could not make it to a meeting in person but managed to get the stuff done without them being there – presentation
- ○ Did not do the balancing equation right on the PCB ("my bad" -Raymond) and need to eliminate some weight on the LED side … is possible but need to talk with Jerry to be able to do it safely
- ○ Missed a Friday out to eat due to people needing to be places (Big SAD)

Hi Ben,

With the total PCB order of $67.61 your group has spent $270.54 of your $287.50 budget.

Let me know if you have any questions.

Figure 1: Snapshot of Budget Spent from Scott Laforest

Date	Who	TTS (hr)	Summary of what was done
1/14/2022	All	1.5	Initial Documentation set up, ideas for project
1/14/2022	All	2.5	Finalize idea for project, start working out BOM, first order sent
1/14/2022	Ben	0.5	BOM Stuff
1/18/2022	All	2.5	Documentation, Prototyping
1/18/2022	Hayvin	1	Start of Documentation that is due
1/21/2022	All	6	Documentation, Prototyping, Coding, Going out to eat
1/24/2022	Ben	2	Motor Holder Design
1/24/2022	Ben	3	Set up Schematic & Code
1/25/2022	All	2.5	Documentation, PCB Design, Motor Case Design, remote building
1/25/2022	Hayvin	0.5	Documentation

1/25/2022	Ben	1.5	CAD
1/27/2022	Raymond	2	pcb design, specifically wiring layout
1/28/2022	All	6	Code, Motor Case Print, ESP, PCB Design, Documentation, going to eat
1/28/2022	Hayvin	0.5	Documentation, code
2/1/2022	All	2.5	Code, PCB, Documentation
2/1/2022	Hayvin	1	Documentation
2/1/2022	Raymond	0.5	Sanding, Weighing parts
2/4/2022	All	6	Documentation, PCB design, Connecting components, Code
2/4/2022	Raymond	0.5	pcb design
2/8/2022	All	2.5	Documentation, Code
2/11/2022	All	5	Documentation, Code, soldering
2/15/2022	All	2	Presentation
2/15/2022	Ben	2.5	remote control assembly
2/18/2022	All	6	Code, Soldering, documentation
2/18/2022	Hayvin	0.5	Documentation

Figure 2: Activity Log

Task	Time Start	Time Due	Estimated Time (hr)	Finished Date	Lead
Initial BOM	1st Friday	2nd Monday	1	1st Friday	Ben
Initial Materials Obtained	1st Friday	3rd Monday	1	2nd Friday	Scott LaForest
Design Features	1st Friday	2nd Friday	6	3rd Tuesday	Hayvin
PCB Design	2nd Friday	4th Friday	12	4th Friday	Raymond
Prototyping Hardware	2nd Tuesday	2nd Tuesday	2	3rd Tuesday	Ben
Code - Image Rendering	2nd Tuesday	9th Friday	20		Raymond
Code - Communication	2nd Tuesday	9th Friday	20		Ben
Code - Remote Control	2nd Tuesday	9th Friday	20		Hayvin
Trouble-Shooting Code	4th Tuesday	10th Monday	40		Ben
Build Final Hardware	6th Tuesday	7th Friday	6		Raymond
Final BOM	2nd Monday	5th Tuesday	1	5th Friday	Hayvin
Final Materials Obtained	5th Tuesday	6th Tuesday	1	6th Thursday	Scott LaForest
Testing & Validation	10th Tuesday	10th Friday	6		Raymond
Documentation	1st Friday	10th Friday	20		Hayvin

Figure 3: Project Timeline