

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 (2/21-3/4) are the following:

- Motor Code preliminary done
- Design Built Up
- Ongoing Documentation

For the next two weeks (3/8 - 3/18) we would like to achieve.

- Have project done
 - Image rendering code done
 - Remote code done
 - Motor controller code done
 - Validation of design done
 - Documentation done

Currently we are struggling with the following:

- With the idea of Friday out to eats coming to an end (term almost over)

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	Total Time Spent (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, Food

1/28/2022	Hayvin	1	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, Five Guys
2/18/2022	Hayvin	0.5	Documentation
2/22/2022	All	2.5	Soldering and code
2/22/2022	Ben	1	Motor Controller Prototyping
2/23/2022	Raymond	0.5	Code
2/25/2022	All	6	Balancing PCB, Code, Food
3/1/2022	All	2.5	Building up design, testing code, & documentation
3/1/2022	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	8th Tuesday	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