

CE-490: Senior CE Design Project
Professor Foster
2/4/2022

Team Members:
Raymond Blair Jr.
Hayvin Bolton
Ben Kepner

The things we have accomplished the last two weeks (1/24 - 2/4) are the following:

- Designed PCB
- Start Order for PCB
- Designed and place print in Print farm for Motor mount
- Obtained motor mount from print farm
- Obtained LED's
- Have communication between all 3 boards via Arduino
- Ongoing Documentation

For the next two weeks (1/24 - 2/4) we would like to achieve.

- Build up design (PCB in hand dependent)
- Button Code (have button pressed and acknowledgement between the microcontrollers
- Fan Controller Code

Currently we are struggling with the following:

- None to note but stay tuned (doot doot)

I have placed your orders. The total cost was \$202.93. Your group has spent \$202.93 of your \$287.50 allowed budget. The Amazon orders should arrive by Thursday and will be delivered to Amy Owens in the ECE office. I do not have a delivery estimate for the items from the other two vendors, but it should be within a week.

Let me know if you have any questions.

Scott

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	Finalise 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	Document
2/1/2022	Raymond	0.5	Sanding, Weighing parts
2/4/2022	All	6	Documentation, PCB design, Connecting components, Code, going out to eat
2/4/2022	Raymond	0.5	pcb design

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		Hayvin
Final Materials Obtained	5th Tuesday	6th Tuesday	1		Scott LaForest
Testing & Validation	10th Tuesday	10th Friday	6		Raymond
Documentation	1st Friday	10th Friday	20		Hayvin

Figure 3: Project Timeline