

sdmay19-15: Capacitor Gun

Week 7 Report

April 22 - April 28

Client: Max Balzer

Faculty Advisor: Mani Mina

Team Members

Grant Larson — *Test and Design Engineer*

Max Balzer — *Meeting Facilitator and Production Engineer*

Bret Tomoson — *Projectile and Power System Designer*

Brett Nelson — *Documentation, Engineer Designer*

Mark Fowler — *Test Engineer, scribe*

Zachee Saleng — *Engineer designer*

Summary of Progress this Report

We reflected on what we accomplished last semester as a group and what we need to improve on and change. We split into three groups to effectively divide up the work which Mani recommended in our bi-weekly meeting.

Past Week Accomplishments

- Split into three groups to divide work
 - Group 1: Max and Bret will work on creating a small, demo model of an electromagnetic propulsion device to help convey engineering theories and technology.
 - Group 2: Mark and Grant will work on the charging circuit either by fixing the current one or making a new one.
 - Group 3: Brett and Zachee will create a document clearly outlining the theory of operation of an electromagnetic propulsion device.
- Project report and presentation - Mark
 - Finish project report and project presentation
 - Practice presentation and work on plan for project demo
- Materials and small scale design research and production- Max
 - We have all worked on our respective parts of the final report to get that complete and submitted.
 - I am still trying to think of multiple ways to test the project whenever we get everything figured out.
 - Our theory of operation is complete at this point. All of the contents should be up to par with what was asked.
- Final Materials - Brett
 - Finalize the final report

- Worked on slide to finish our presentation
- Finalized project documents - Bret
 - Worked with the team to finish the project report.
 - Worked with the team to finish the project presentation.
- Presentation and document work - Grant
- Theory of operation- Zachee
 - I Went through the presentation slides.
 - Worked on the final report document with the team.

Pending Issues

- Analyzing the charging circuit that we have already created with the help of professors to better understand and fix what is wrong with it.

Plans for Upcoming Reporting Period

We will all continue working in our groups on our specific tasks.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Grant Larson	Wrote in and edited our final document. I also worked with the team on our final presentation slides and made sure everything was in order for the coming week.	4	48
Max Balzer	We all wrote the final report and made the presentation slides. We will walk through our presentation at some point before our scheduled time so that we are all on the same page when presenting.	12	60

Bret Tomoson	Worked with the team to finalize project report and presentation.	10	50
Brett Nelson	Finished writing up the final report, went through it and clean it up. Worked on adding information for slides in our presentation making sure everything we needed was there.	10	58
Mark Fowler	Continue working on project report and presentation. Added relevant material to poster outline.	5	47
Zachee Saleng	Went through the slides presentation, adding valuable information, and ensure that it goes along with the ethics. Keep editing the final report.	9	57

Gitlab Activity Summary

Nothing to report.
