

sdmay23-21: Automatically aligned wireless smartphone charger

Week 5 Report

October 24 - October 28

Team MembersGreg Matson — *Lead Researcher*Jack Welch — *Lead Prototype Designer*Jeremy Noeson — *Scribe*Noah Pritchard — *Client Interactor*Malakhi Berkley — *Lead Prototype Designer*Remington Greatline — *Lead Researcher***Summary of Progress this Report**

This week, we worked on the Proposed Design document, and we disassembled our wireless charger to measure the coils' current and voltages when charging a phone. This allowed us to test our hypothesis on how we plan on programming the Arduino, in order to find the optimal location for the coils to charge the phone efficiently.

Pending Issues

There are no pending issues to report at this time.

Plans for Upcoming Reporting Period

Next week, we plan on doing research on the specific parts and materials we need to built the 2 axis system of the wireless charger. Once we determine that, we can also determine specific costs of parts, specific building details, and the overall build time of the wireless charger.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Greg Matson	Worked on the Proposed Design document.	2	
Jack Welch	Worked on the Proposed Design document	2	
Jeremy Noeson	Helped in testing the voltage and current outputs of a sample wireless charger. He also recorded the meeting minutes.	3	
Noah Pritchard	Worked on the Proposed Design Document. Also helped in testing the voltage and current outputs of a sample wireless charger.	4	0
Malakhi Berkley	Worked on the Proposed Design document.	2	
Remington Greatline	Worked on the Proposed Design document.	1	0

Gitlab Activity Summary

Nothing to report.
