
EE 492 BIWEEKLY REPORT

January 28th - February 10th, 2024

sdmay24-22

Wirelessly Charged Nursery Light

Client/Advisor: Cheng Huang

Team Members:

Joshua Holloway (Team Lead/Client Interaction)

Thomas Youhn (Electrical Lead)

William Snyder (Tester)

Logan Farmer (Facilitator/Designer)

Alexandros Psomas (Product Designer)

Summary

The primary focus has been on isolating the final steps before product housing development. For the past two weeks, the electrical team has been finalizing testing of the wireless charging unit and building out the final steps for the circuit, while the design team has been working on developing rough models to showcase and get feedback on.

Accomplishments

- Finalized wireless charging functionality
- Tested wireless charging time and performance
- Isolated circuit modifications required
- Met with ID outside source to work out design details and considerations
- Designed two models for presentation
- Prepared for client/advisor meeting at the beginning of next week.

Pending issues

- pMOS transistor required for regulating power controls was an unexpected addition to the workload and circuit design

Plans for Upcoming Week

- Product design, CAD, material testing
 - Josh
 - Alexandros
- PCB design, sourcing, manufacturer, finalize circuit, testing
 - Thomas
 - William
 - Logan

NAME	CONTRIBUTION	BIWEEKLY HOURS	TOTAL HOURS
Josh	Product design, meeting organization, ID consulting	6	34
Thomas	Component testing and research concerning magnetic charging	6	35
William	Product design, component testing, component research	5	28
Logan	Product design, product testing, component finder, meeting scribe	6	30
Alexandros	Product design, component finder, and tester	5	29