

EE/CprE/SE 491 WEEKLY REPORT 17

10/25/2022 - 10/31/2022

Group number: SDDEC22-01

Project title: Plastic Machine Embedded IOT Controller

Client & Advisor: Mark Hansen & Dr. Jones

Team Members/Role:

Stone Widder - Technical Lead

Joshua Baringer - Software Lead

Rachel Teberg – Team Lead / Recorder

Evan Pasero – Technical Support

Charles Sang - Controls Lead

○ **Weekly Summary**

This week we continued with testing the main and daughter boards. We discovered that an issue we were having with the touch connector had to do with it being wired backwards. We also looked into an AC monitoring chip and a MatLab library for python.

○ **Past week accomplishments**

- Continued Display Testing – Josh and Rachel
- Continued running basic tests on the PCB – Stone, Rachel, Evan, Charles

○ **Pending issues** *(If applicable: Were there any unexpected complications?*

Please elaborate.)

○ **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u> <i>(Quick list of contributions. This should be short.)</i>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Stone Widder	Main PCB Testing, 5V reg testing	8	72
Rachel Teberg	Helped with display and PCB testing	8	50
Joshua Baringer	Discovered Display pin issue, Ran basic configuration tests	8	59
Evan Pasero	5V reg testing, batt circuit testing	10	51
Charles Sang	Ordered ac monitoring and PCB testing	7	44

- **Plans for the upcoming week**

Joshua: Finish testing touch connector, stretch goal of basic GUI tests

Stone: Finish Final Testing of main PCB, Redesign board by Friday

Rachel: Continue assisting with testing display and PCB, assist with board redesigns

Charles: Test ac monitoring and capacitance for power supply

Evan: Re-layout 5V reg board by Friday and adjust BOM and schematic based on findings

- **Summary of weekly advisor meeting**

At this week's advisor meeting we went through our updates and talked about a few issues we had ran into. We were told that we were making good progress. We were also asked to write up a testing plan/report of what we have or intend to test.