

sdmay19-12: Automatic Solder Dispenser

Status Report 12

January 28 - February 3

Client: Leland Harker

Team Members

Jason Austin – Software Lead

Justin Wheeler – Mechanical Lead

Zachary Bumstead – Electrical Lead

Kevin Carlson – Mechanical/Electrical Integrator

Trenton Allison – Software/Electrical Integrator

Samuel Willford – Report Manager and Meeting Facilitator

Summary of Progress this Report

- Modified diode/photoresistor housing - Trent, Sam, Jason
 - Placed board mounting holes in diode/photoresistor housing
 - These holes will allow the sensor board to attach to the diode/photoresistor housing
 - Sensor board and housing will connect to small metal plate
 - Plate will be connected (with standoffs) to cutter/coiler
 - Finished spool spindles- Kevin
 - Installed plungers into all four spindles
 - Squared bottoms of spool brackets - Kevin
 - Bottoms of the spool brackets were squared
 - Brackets will need more support
 - A 1-inch right angle aluminum bar will be used to attach brackets to base-plate
 - Should give enough support
 - Cut spring to length for extruders - Justin
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Pending Issues

- None at this time
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Plans for Upcoming Reporting Period

- Solder new driver board and sensor board - Trent, Zach
 - PCB and parts should arrive this week
 - Boards need to be soldered and tested
 - Any issues should be addressed immediately

- Finish extruders - Justin
 - Finish putting aluminum extruders together and test
 - Parts should arrive this week

- Modify and finish administrator page - Jason
 - Database needs to be resettable
 - Email addresses should be modifiable
 - Room/building location should be an input
 - When emailing, the dispenser will tell the recipient where its location is

- Create updated coiler - Jason
 - Coiler needs to have an extension added in order to attach to cutter.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Sam Willford	Report 11, meeting organization	7	120
Jason Austin	Created new diode/photoresistor housing, worked on sensor programming	7	126
Trent Allison	Worked with Sam and Justin to place holes in diode/photoresistor housing	2	113.5
Justin Wheeler	Cut springs to length for extruders, worked with Sam to buy PVC for output	8	99.5
Kevin Carlson	Finish plungers for solder spool, squared bottoms of brackets	3	72
Zach Bumstead	Inventory	7	85

Gitlab Activity Summary

Action: pushed to, Sat Sep 08 2018
Author: willford
Title: Added Parts List

Action: joined, Sat Sep 08 2018
Author: wheeler1

Action: pushed to, Sat Sep 08 2018
Author: jsaustin
Title: Added stepper pinout file

Action: pushed to, Tue Sep 04 2018
Author: jsaustin
Title: updates

Action: pushed to, Tue Sep 04 2018
Author: jsaustin
Title: Upload of test app and env set

Action: pushed new, Thu Aug 30 2018
Author: jsaustin

Action: joined, Tue Aug 28 2018
Author: carlson5

Action: joined, Tue Aug 28 2018
Author: zrbum

Action: joined, Tue Aug 28 2018
Author: willford

Action: joined, Tue Aug 28 2018
Author: jsaustin

Action: created, Tue Aug 28 2018
Author: sd
