

Senior Design Group May15-03 Weekly Report

Week 6 10/13/14-10/18/14

Advisor: Leland Harker

Client: Hitachi Global Storage Technologies

Name	Major	E-mail(@iastate.edu)	Role
Jacob (JD) Mayer	EE	jdmayer	Team Leader
Matt Eckes	EE	mweckes	Communicator
Jacob Schulz	EE	jschulz	Key Concept Holder
Trevor Boone	SE	tdboone	Web master/ Key Concept Holder
Shawn LaGrotta	Cpr E	lagrotta	Webmaster

Past week accomplishments

Task description	Person	Completion date
Weekly Report Meeting	ALL	10/6
Client Meeting	ALL	10/8
Advisor Meeting	ALL	10/10
Website Development <ul style="list-style-type: none">Responsive design for individual content sections	Shawn	10/6 – 10/10
Put together different 3D printer kits to evaluate which one we will purchase	Matt	10/12
Jig Modeling <ul style="list-style-type: none">Lowered edgesModified design to only use two edges and clamps to hold HDD	JD	10/9

Plan for next week

Task description	Person	Goal date
Website development <ul style="list-style-type: none">Finish updating contentPublish	Shawn	10/17
Research G-code	Shawn	10/17
Research Gerber/drill files	Trevor	10/17
Continue Modeling <ul style="list-style-type: none">Probe holder<ul style="list-style-type: none">Less bulky so that multiple probes won't interfere	JD	10/17
Finish 3D pricing sheet	Matt	10/16

Purchasing information <ul style="list-style-type: none"> • LED indicators • LCD screen 	Jacob	10/17
Get pricing/features of Raspberry Pi	Jacob, Trevor	10/17

Future issues

Task description	Person	Goal date
Calibrating the robot remotely	ALL	-Thanksgiving

Individual hourly contributions

Name	Weekly	Cumulative
Jacob (JD) Mayer	5	31
Matt Eckes	4	19
Jacob Schulz	3	16
Trevor Boone	3	22
Shawn LaGrotta	5	32

Summary

The progress of the project was slowed down this week due to contemplating going to a single arm robot design rather than the 3D printer model. Each member researched possible single arm designs, but determined that the solution to be too costly for the level of resolution needed. We discussed this with the client during our weekly meeting. They were in complete agreement that we should move ahead with the 3D printer model, operating a single probe; with the option of expanding for a 2nd probe.

The goal for this week is to put together a pricing sheet with 3D printer kits, then discuss the pros and cons of each with our advisor on Friday, 10/13. We hope to have the kit picked out and ready for ordering by next week.