Senior Design Group May15-03 Weekly Report

Week 3 9/15/14-9/21/14

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
Wrote weekly report	ALL	9/15
Created block diagram of robot model	ALL	9/15

Met with client
• Clarified specifications
    o 1-2 probes
    o Type of indicators
    o Level of oscilloscope data interface – none
• Updated IP forms NDA
	ALL	9/17

Met with advisor
• Discussed block diagram
• Went over 3D printer kit (RepRat)
• Discussed what type of microcontroller we will need
    o Raspberry Pi
        ■ Able to communicate wirelessly
	ALL	9/19

Figured out how to control probes to be able to get two measurements in close proximity	ALL	9/17
Got client equipment (probes)	JD	9/19
Contacted Mani Mina for website hosting	Shawn	9/15

Plan for next week

Task description	Person	Goal date
Conference call with client	ALL	9/24
Go to HGST career fair booth for face to face meeting	ALL	9/23
Create 3D model of robot	JD, Matt	9/26
Workout Coordinate system for 2 probe design	Matt	9/26
Meet with advisor	ALL	9/26
Put up website	Shawn	9/26
Get pricing/features of Raspberry Pi	Jacob, Trevor	9/26
Develop Project Plan	ALL	9/26

Future issues

Task description	Person	Goal date
How to calibrate the machine remotely with accuracy and consistency	ALL	-Thanksgiving

Individual hourly contributions

Name	Weekly	Cumulative
Jacob (JD) Mayer	4	11
Matt Eckes	3	8
Jacob Schulz	3	8
Trevor Boone	3	9
Shawn LaGrotta	4	18