EE 491 WEEKLY REPORT 8   **Date: 10/31/16**

May1733

Remote Wafer Testing

IBM, Geiger

Antonio Montoya, Team Leader

Braden Rosengren: Hardware Lead

Chris Little: Key Concept Holder

Christian Hurst: Web Master

Ben Wiggins: Communications Lead

○ **Weekly Summary (Short summary about what you did this week)**

This week, the software team developed a way to communicate with the lab equipment using a terminal in the Raspberry Pi. This means that we can easily create automated scripts that will output commands to lab equipment to run tests. The hardware team began the layout of the breakout board by creating a layout of the Raspberry Pi in Eagle.

In addition to these, in our weekly meeting with Dr. Geiger, he suggested that we look into reaching out to IBM, if only to get a proof of concept DUT. He also introduced us to the idea of collaborating with other universities, considering that we are no longer collaborating with IBM. These universities could be in the US or abroad. We are currently using some of Geiger's contacts to explore these possibilities.

○ **Past week accomplishments (please describe as what was done, by whom, when)**

- The Raspberry Pi is now able to communicate with test equipment over GPIB
- The first revision of the team website has been made live
- Hardware layouts for Raspberry Pi have been created

○ **Pending issues (if applicable)**

- An additional issue that comes us with officially dropping IBM deals with funding. Geiger told us that Senior Design groups can sometimes receive as much as $600 to assist in funding senior design projects.
  What is the process to gain access to our portion of these funds?

o **Individual contributions**

NAME	Individual Contributions	Hours this week	HOURS cumulative
Antonio	Met with Geiger	2.5	30.5
Christian	Created Website, implemented GPIB to lab device communication	6.5	32.5
Ben	Researched GPIB to lab device communication, met with Geiger	6	31
Chris	Researched DUT parts	3.5	20.5
Braden	Built Raspberry Pi 3 layout	3	18

o **Plan for coming week (please describe as what, who, when)**

Braden: Continue to create layouts for the breakout board

Ben: Learn how to program in Python in order to write test scripts for the raspberry Pi

Chris: Continue research into usage cases and DUT

Christian: Develop test framework

Antonio: Look into implementing GPIB shorthand notation with Pearl backend