

EE 491 WEEKLY REPORT 5

Date: 10/10/2016

10/4/16-10/10/16

Group number: MAY1729

Project title: Garmin Power Sensor Test Fixture

Client: Jeremie Vens

Advisor: Professor Degang Chen

Team Members/Role:

Amna Aftab/Key Concept Holder #1

Brandon Floyd/Team Leader

Stephen Julich/Webmaster

Francis Wagner/Team Communication Leader

Xi Zhu/Key Concept Holder #2

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

We met with Dr. Chen and Jeremie Vens on Thursday, October 6 to get everyone involved in the project on the same page. Team members researched and purchased hardware, familiarized themselves with the software necessary to complete the design, organized future client meetings, and began the project planning document.

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

- Xi Zhu: missed the meeting with advisor due to the GRE test. Continuing practicing Cadstar software.
- Brandon Floyd: Set up and attended meeting with advisor and Garmin contact. Coordinated future meeting between advisor and Garmin contact so we can discuss the design specifications in greater detail.
- Stephen Julich: Attended group meeting with advisor and client. Discussed ADC options with Advisor. Did some research on ADC design considerations. Posted weekly reports to website.
- Amna Aftab: Attended group meeting with client and advisor. Discussed the possible current range for our circuit and the design associated with it. Managed meeting minutes.
- Francis Wagner: Attended the group meeting with client and advisor. Prepared questions for Dr. Chen and Jeramie prior to the meeting. Coordinated weekly report. Began project planning document.

Pending issues (if applicable)

- N/A

o **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Xi Zhu	See above past week accomplishments.	2	13
Brandon Floyd	See above past week accomplishments.	4	14
Stephen Julich	See above past week accomplishments.	3	18
Amna Aftab	See above past week accomplishments.	3	16
Francis Wagner	See above past week accomplishments.	4	17

○ **Comments and extended discussion**

- We are fortunate that video chatting exists. In fifty minutes, we were able to clear up kinks that could have taken a couple of weeks to resolve with email, and we are grateful that our client has been accessible and understanding.

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

- We plan to progress from our block diagram to a far more specific circuit diagram during our Tuesday team meeting. Our project will involve current mirror circuits, digital potentiometers, and eight reiterations of our prototype power sensor. In addition to design work itself, Francis Wagner will continue with the project planning document and work with team members on their editing responsibilities with respect to the document.

○ **Summary of weekly advisor meeting (if applicable/optional)**

- We had a very productive meeting with our advisor and client (through video chat) all in one room. We are all on the same page and enthusiastic about taking the next design steps.