

*EE 491 WEEKLY REPORT 10*

*Date: 11/14/2016*

*11/8/16-11/14/16*

*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 our advisor Dr. Chen on Thursday to discuss ADC and microprocessor specifications and circuit integration. Plans for testing ADC input capacitance and impedance were laid out. Dr. Chen also pointed out the need for a voltage shifting property in our op-amp circuit.

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

- Xi Zhu: Attended weekly team meeting. figure out the input impedance of ADC.
- Brandon Floyd: Attended weekly team meeting. Narrowed down the specifications for the model of op-amp we would want to test for the physical prototype. Currently ordering multiple models to test with the prototype.
- Stephen Julich: Attended weekly team meeting. Got ADC demo software working on new FRDM-K64F microcontroller board. Going through sample code and libraries to start working on a custom app for our project.
- Amna Aftab: Missed the weekly team meeting because of an interview. Ordering the specified opamp model to test the prototype design. Building the prototype this week for testing.
- Francis Wagner: Attended weekly meeting. Worked on Project Plan Version 2. Coordinated weekly report. Formalized attenuator/shifter op-amp circuit portion of pre-ADC design.

**Pending issues (if applicable)**

- N/A

o **Individual contributions**

<b><u>NAME</u></b>	<b><u>Individual Contributions</u></b>	<b><u>Hours this week</u></b>	<b><u>HOURS cumulative</u></b>
Xi Zhu	See above past week accomplishments.	3	31
Brandon Floyd	See above past week accomplishments.	3	31
Stephen Julich	See above past week accomplishments.	4	38
Amna Aftab	See above past week accomplishments.	2	34
Francis Wagner	See above past week accomplishments.	3	40

o **Comments and extended discussion**

- N/A

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

- Complete breadboard design of circuit providing ADC input.