

**EE/CprE/SE 492 - sdddec19-06**

**Design and Implementation of a Small Scale Stand Alone Hybrid Solar PV and Wind Energy Generation**

**BIWEEKLY REPORT - 5**

10/26/19 – 11/8/19

Client and Faculty Advisor: Dr. Venkataramana Ajjarapu

**Team Members:**

Hussein Ghitan - Meeting Scribe

Adam Schroeder - Chief Engineer

Anna Schulte - Meeting Facilitator

**Biweekly Summary:**

The team ordered two multimeters through the ETG, those should come in before Fall break.

**Past Two-Weeks Accomplishments:**

The team was able to get the Irradiance sensor readings. Irradiance is a big part of the lab calculation for estimating the maximum power at a certain load. In order to read the value of the irradiance, we have to display the irradiance voltage on the display screen which is done by the (ADC) and implemented through the arduino.

Hussein tested the Arduino and found out it was not working. The arduino was replaced and the C programming code was loaded onto the new arduino. The measurement of the irradiance and the temperature are now displayed on the LCD.

**Pending Issues:**

The simulation and the hardware are giving us different values due to the set parameters for the solar panels in simulink.

**Individual Contributions:**

<b>Team Member</b>	<b>Contribution (Optional)</b>	<b>Biweekly Hours</b>	<b>Total Hours</b>
Hussein Ghitan		11	36
Adam Schroeder			28
Anna Schulte		4	29

**Plans for Coming Two Weeks:**

Install the two multimeters that should come in sometime in the next week. Finalize and create lab manuals for our system.

**Summary of weekly advisor meeting (Optional):**