

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

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

**BIWEEKLY REPORT - 1**

08/26/19 – 9/13/19

Client and Faculty Advisor: Dr. Venkataramana Ajjarapu

**Team Members:**

Hussein Ghitan - Meeting Scribe

Blaise Ronspies - Test Engineer

Adam Schroeder - Chief Engineer

Anna Schulte - Meeting Facilitator

**Biweekly Summary:**

As the work continues on the project from the previous semester, the team had to meet several times during the past two weeks to go over what has been done and what is the current status of the project as well as future plans. The team created a detailed list of tasks and tentative checkpoints for this semester. Work began on debugging the system.

**Past Two-Weeks Accomplishments:**

Arduino Investigation - Control Unit: Hussein/Blaise

- Reviewed arduino language written by previous groups to ensure the functionality of every component of the project (in process). During the spring semester, we were able to convert the sun's energy into a DC power and demonstrated to the student of EE 452 lab. However, the project's sensors such as irradiance, voltage, temperature and current did not display signals and alternative external tools were involved.

**Pending Issues:**

The team is still unsure why the displays are not functioning, debugging the code will be our next step. The display wiring may also be improper.

**Individual Contributions:**

<b>Team Member</b>	<b>Contribution (Optional)</b>	<b>Biweekly Hours</b>	<b>Total Hours</b>
Hussein Ghitan		6	6
Blaise Ronspies	Set up schedule and task flow, started work with arduino	5	5
Adam Schroeder	Diagnosed possible issues with display	6	6

	circuit within system.		
Anna Schulte		5	5

**Plans for Coming Two Weeks:**

To debug arduino code as well as the circuitry in order to make progress with the display circuit. Begin improvements to safety and usability. Have all ordering finished.

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