**Research Plan**

Instructions: Using the suggested research activities presented at the end of each lecture, identify at least one activity that you are most interest in and will be involved in upcoming months.

**Faculty Name: Benjamin Uresti**

**Email: buresti1@alamo.edu**

**Institution: San Antonio College**

**Title of the Research: Research in improving solar panel efficiency**

**Will it be a collaborative work with other partners (if yes, name of the partner):** Possibly with Texas State University for help with part manufacturing, items that cannot at this time be manufactured in our school

**Objectives of Activity:** To do research and experimenting with solar panels to improve the output.

**Description of the activity:**

Initially do research by searching information and developing a plan to create systems to improve the panels. Model in CAD and create basic mockups which will lead to implemented systems to be tested. These systems will then be tested and improved on until data will be collected and evaluated.

**Possible deliverables/output (a product, software, article, etc.):** The output of project will be a written report/paper describing findings of research. A future expansion of research will be presented with upgrades to the designs to further the research.

**Expected Students involved:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Email** | **Field of interest** | **Hours/week working** | **Minority?** | **Female Minority?** |
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Note: At SAC there are a variety of students that utilized the MESA study lab and MESA Project Room. This project can be presented to a club such as MAES (Latinos in Science and Engineering), SWE (Society of Women Engineers), or SPS (Society of Physics Students) which has many minorities and women involved. There has been research projects that have had all girl/minority teams involved.