## **PURE Research Plan Form**

Mentee Information				
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Fall 2018 Research Plan				
1.) Write a brief outline of your research plan:				
This semester I will be working on designing a circuit board to control energy storage and output to the system of a solar powered autonomous unmanned aerial vehicle (UAV). The circuit board that currently runs the UAV is outdated and runs with a less efficient battery than is currently available. My task is to redesign the circuit using EagleCad to work with a newer more energy dense battery.				
First, I will study the old design. After I fully understand the old design, I will evaluate what changes and improvements are needed for the new system. Then I will design the new circuit board and test it. In addition, I will also make sure to get feedback from my mentor and others on the new design and then make edits to it as needed. After going through the process of designing, testing, editing and redesigning a few times, hopefully I will come to a sufficient design.				
2.) What do you hope to learn and achieve by the end of the semester?				
well as my project mana implement it. In class, I opportunity to design a c	ngement so have bee circuit my my learr	kills in being able to n studying circuits an yself for a practical paining to a hands-on pro	initiate and how the ourpose. To oject, wh	cal skills in circuit designing as a project, improve on it, and fully ney work but have never had the This research experience gives me ich will give me valuable skills aduate career.

Date: \_

Mentee Signature: \_

Mentor Signature: