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| Student’s name: | Sterling LaBarbera |
| Student’s pawprint: | Spl2q2 |
| Meeting date: | 3/9/2021 |
| Project title: | Outdoor Solar-Powered Lighting Installation and Acoustic Mosquito Repellent for Unpowered Outdoor Structures |
| Faculty advisor’s name: | Dr. Jae Kwon |
| Next meeting date and time: | 3/30/2021 |

1. Meeting agenda items

* Progress reports on App and PSU

1. Overview of work I’ve completed since the last progress report meeting (be specific):

* Power Supply design finished
* All parts received

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| 1. Deliverables / Milestones that have come due since the last progress report meeting: | Date Due | Date Delivered |
| All parts ordered |  |  |
| Power Supply designs finished |  | 3/1 |

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| 1. My next deliverables / milestones that are coming due: | Date Due |
| Assembled PSU | 3/12 |
| Completed Solar charging unit | 3/12 |
| App Control | 3/12 |

1. Problems I’ve encountered and what I am doing to solve them (be specific):

* Switch mode power supply design is difficult. I have been using a tutorial on buck converters from <https://www.powerelectronicsnews.com/power-supply-design-tutorial/> as well as some advice from Prof. Fischer.
* I decided to use a through-hole solderable PCB since I did not think I had time to design and order a custom one. To support the high currents, I will be using high-gauge copper wiring across the connections

1. Tasks I’ll be working on during the next weeks (be specific):

* If the power supplies do not work, I will be placing and order for prebuilt ones 3/10
* Finish programming app
* Complete the integration phase