

Solar Sailors

Meeting Minutes from 09/14/2020

Members in Attendance:

Adriana Oliveira (Team Member)

Brady Jerome (Team Member)

Lukas Vermeulen (Team Member)

Steve Szablya (Sponsor)

- Meeting Started at 5:30 PM.

- Steve provided some background on kW for humanity's previous work
 - Main players: Steve, Jenna Isakson, Henry Louie
 - Data from previous projects at kw4h.org
 - Our data will let kW for humanity
 - Know how much solar radiation is hitting their solar panels
 - Collect data to improve simulations in Homer

- Team members asked Steve questions about various details of the product.

- Team discussed aspects of product construction.
 - Glass domes
 - Arduino or Raspberry Pi
 - Using Op Amp circuits to amplify the voltage from the sensor and to convert the amplified voltage to a current.
 - 3D print initial prototype and use U of I 3D printer for the final product.

- Team discussed the rotating team leader.
 - The team leader position will rotate based on the milestones of the senior design course.
 - Lukas will be the first team leader.
 - Adriana will update the team contract to reflect the changes.

- Goals for next meeting:
 - Brady will look at thermopile solutions and create a template for meeting agendas.
 - Lukas will look at Op Amp circuits to for voltage amplification and voltage to current conversion. He will also complete the rough draft of the budget and submit it.
 - Adriana will look at previous pyranometer designs and how to cut costs. She will also add the new zoom link to the meeting invites.
 - Nick will create a new Zoom link so the team can record the meetings. This will help make taking meeting minutes easier. He will also look at materials for the pyranometer like the glass dome.

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- Meeting closed at 7:06 PM.