

Project #: 14

Title:

solar power charging station

Evaluator: Wyatt Hopper

Outcome 3	An ability to communicate effectively with a range of audiences
Assessed	In MECH 447 Spring 2023; by the faculty attending final presentation

		Level of Achievement				Score
		Exemplary (Score: 4)	Proficient (Score: 3)	Apprentice (Score: 2)	Novice (Score: 1)	
Performance Indicator	1. Content.	Information is clearly conveyed to the audience. New concepts fully explained.	Information is sufficiently conveyed to the audience. Minor conceptual errors do not distract from overall impact.	Some information conveyed to audience. Some conceptual errors distracted from overall message.	Little information conveyed to audience. Major conceptual errors confused audience undermined credibility.	3.87
	2. Organization.	Sequence of information made sense and was easy to follow.	Sequence of information mostly made sense and was easy to follow.	Communication to audience was affected negatively by improper sequence or missing content.	Lack of proper organization resulting in audience struggling to follow along.	4
	3. Presentation.	Pace, volume, and enunciation excellent to very effectively convey the information. Quality of presentation (e.g., visual aids) adds to the audience's understanding.	Pace, volume, and enunciation sufficient to convey information. Quality of presentation (e.g., visual aids) do not detract from the audience's understanding.	Pace, volume, or enunciation off enough to distract from content. Quality of presentation (e.g., visual aids) detracts slightly from the audience's understanding.	Pace, volume, or enunciation off enough to distract from entire presentation. Quality of presentation (e.g., visual aids) significantly detracts from the audience's understanding.	3.9
	4. Q/A Session.	Questions from audience answered correctly and confidently to successfully help audience understand.	Questions from audience answered adequately.	Either questions were not answered correctly and adequately or the speaker was a little uncertain or hesitant.	Either the speaker cannot answer questions or is very uncomfortable.	4

Additional Comments:

Thoroughly explains test plan.
 Information sequence is easy to follow.
 They describe results.

Budget overview is well covered. speaking volume inconsistent.
 Timeline is hard to read. They answer questions thoroughly.

Average Score:

3.9425/4

Scope & Deliverables are satisfactory

Design constraints could be more specified

Design concepts are well drawn & thoroughly explained

Matrices are hard to read

Circuit Diagram is easy to understand & follow along with.

They explain more than what is on the board for circuit diagrams

Calculations are hard to read, however well explained
Lots of incoherent pausing.

Key point hard to see.

FEA is well done & covers lots of data

Flow simulation shows structural stability

Final design incorporates best concepts & prototype is shown off very well with photos giving

size & thorough explanation of how it was made & why things were done the way they were