**2023 Spring Engineering Project Showcase (EPS)**

**TEMPLATE for Collecting Information Needed for Team Registration**

This template was designed to help teams ***collect information*** required for their team registration during a team meeting and then the primary member will use this information to register the team at the Showcase Portal. *You do not need to submit this form anywhere.*

* **PRIMARY MEMBER** – Choose a member who will serve as the primary contact for the team. Primary contacts will be responsible for registering the team, have access to the portal to see the judge scores and comments, and be responsible for sharing that information with the team.  
    
  Jordan George

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* **PROJECT CATEGORY** - The major within which your capstone falls under. **Electrical Engineering**  
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* **INDUSTRY SECTOR** - We ask each team to identify, if appropriate, a market segment aligned with their project. The five areas listed below are the research priority areas for College of Engineering at Texas A&M:
  + \_**X**\_Energy
  + \_\_\_Healthcare
  + \_\_\_Infrastructure
  + \_\_\_Manufacturing
  + \_\_\_National Security
  + \_\_\_Other
* **PROJECT TITLE –** Choose a title for your project. This will be title of your poster and will be used by the judges to identify you during the Showcase.
  + **Fresnel Lens Control Tracking**

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* **PROJECT DESCRIPTION – Short project description (550 – 700 characters).** *The judges will read this before meeting with your team during the Showcase. Your description should address questions such as: What problem are you solving? What engineering challenge do you have in this project? How would your solution benefit the sponsor?*

**Fresnel Lens Control Tracking is a project that entails designing and testing the control methodology of a Fresnel Lens in a Heliostat Control System, a device used to track the sun. Common applications of Heliostats are within the energy sector, as the world rapidly pushes for the transition to solely depending on renewable energy.**

**The project has been sub-divided into three subsystems: control software, user interface web application, and microcontroller board. The control tracking software is the algorithm used to actuate the system with feedback from key parametric data. The user interface web application gives insight to how well the system is performing and provides interaction between the system and the user. Lastly, the microcontroller board serves as the brain, processing data and moving motors.**

**Character Count = 689**

* **TEAM MEMBERS –** Add all members of your team, including the primary member

|  |  |  |  |
| --- | --- | --- | --- |
|  | First name | Last name | TAMU email |
| Member 1 – Primary | Jordan | George | [j.george5@tamu.edu](mailto:j.george5@tamu.edu) |
| Member 2 | Samuel | Dixon | samueldixon@tamu.edu |

* **FACULTY SUPERVISOR & EMAIL**
  + The name of the faculty who is mentoring the team \_\_\_\_\_\_Christi Madsen\_\_\_\_\_\_\_\_\_\_\_
  + The email of the above faculty \_\_\_\_\_\_\_\_\_\_\_\_\_cmadsen@tamu.edu\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **PROJECT SPONSOR**
  + **TYPE** – Choose one from the list below:
    - \_\_\_Industry sponsored capstone
    - \_\_\_Government sponsored capstone
    - \_**X**\_Faculty sponsored capstone
    - \_\_\_Other
  + **NAME** – List the name of the organization who is sponsoring your project. Examples: Boeing, US Air Force, TAMU – Department of Mechanical Engineering

Texas A&M Department of Electrical Engineering

* + - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Department of Electrical Engineering\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + **SPONSOR APPROVAL** –All teams are required to have approval from their project sponsor before uploading their project videos. Check one below:
    - \_**TBD**\_**Yes,** we have received sponsor approval
    - \_\_\_\_**Not Yet**, we are still waiting for sponsor approval
* **ELECTRICITY REQUIREMENTS** – Select yes or no if your project requires power to support your prototype on the day of the Showcase.

No, this project will not require power to support the prototype the day of the showcase.

* **EXTRA SPACE REQUIREMENTS** – Choose one from the list below:
  + **\_X\_** No, we need a regular booth inside ZACH
  + \_\_\_Yes, we need a booth inside ZACH with extra space to accommodate a large project
  + \_\_\_Yes, we need a booth outside ZACH

**What is NEXT?**

Your primary team member will use this information to register your team by the deadline (02/28/2023) at the **Engineering Project Showcase (EPS) Portal** ([link](https://tamueps.secure-platform.com/a/))

**Note:** To register your team, you DO NOT need to create an account. At the **EPS Portal** ([link](https://tamueps.secure-platform.com/a/)), choose **STUDENT REGISTRATION** and then click on the **TAMU SSO** box.

Use your TAMU credentials to access the team registration page.

**If you have any questions, email us at inp@tamu.edu**