IEEE Internal Projects Competition

Week 1: Competition Overview

Meet the Team

Matias Guillen

Project Chair
Sophomore - Electrical Engineering
Internal Project Competition - Lead
Contact: vector8925

Erik Siegman

Project Committee
Sophomore - Computer Engineering
Internal Project Competition - Sub-Lead
Contact: eriks0527

Yousef Awad

Project Committee
Sophomore - Computer Engineering
Internal Project Competition - Sub-Lead
Contact: quil180

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Meet the Team

Tino Hernandez

Project Committee

Sophomore - EE/CS/CPE/Delusion

Internal Project Competition - Sub-Lead
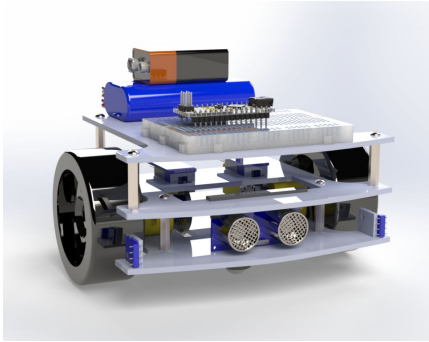
Contact: vjmuzik

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Overview

- Over the next **2 semesters**, work on a group project of your choice.
- There will be **recurring meetings** throughout the semester to meet with groupmates and work on the project, as well as to teach core electronics skills to beginners.
- Funding will be provided **($25 Beginner/$50 Advanced)** by IEEE for each project.
- At the end of the 2 semesters, there will be a **project showcase.**

What you can make? - Last years projects

Micromouse

LED Skateboard

Competition Tracks

Beginner:

Who it's for: New members looking for a guided introduction to the electrical engineering profession

- Guidance in selecting a project, writing a BOM, prototyping, and reaching a completed design.

Advanced:

Who it's for: Members with prior electronics experience looking to receive funding and support for their projects

- Technical assistance from project leads
- Opportunity for more complex project
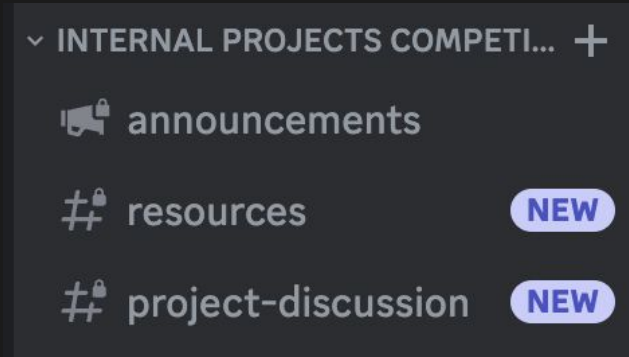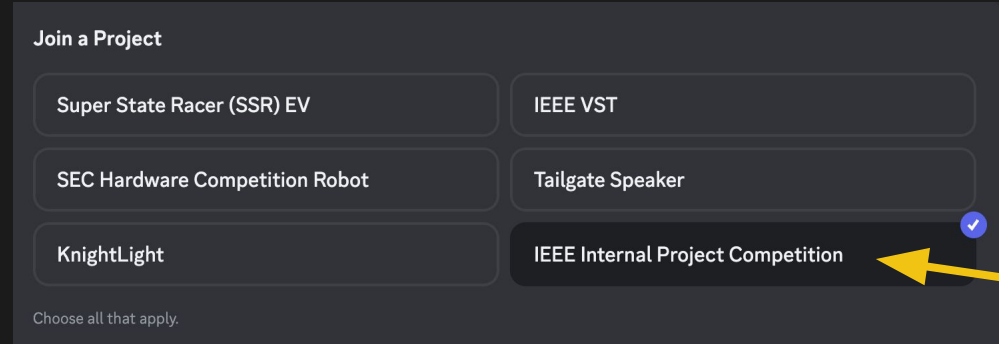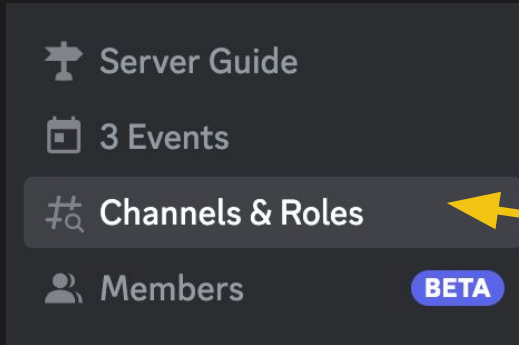
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Timeline and Important Dates

Weekly Meetings - Estimated Timeline (Starting September 16th)

Week 1	Week 2	Week 3	Week 4	Week 5
Introduction	Microcontrollers	Fusion 360/Solidworks	KiCAD	Soldering/Prototyping

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How to join the Discord thread

From IEEE UCF server:

Server Guide

3 Events

Channels & Roles

Members BETA

Join a Project

Super State Racer (SSR) EV	IEEE VST
SEC Hardware Competition Robot	Tailgate Speaker
KnightLight	IEEE Internal Project Competition ✓

Choose all that apply.

∨ INTERNAL PROJECTS COMPETI... +

📢🔒 announcements

#🔒 resources   NEW

#🔒 project-discussion   NEW

Future communication about meetings, deadlines, and general project discussions will be through these channels

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Project Ideas

Beginner Projects:

- 10 Beginner Projects
- Air Quality Monitor
- Alarm Clock
- Nerf Turret
- Audio Visualizer
- Visitor Counter
- Temperature-Controlled Fan
- Solar Tracker
- Heartrate Monitor
- Plant Watering System

Intermediate/Advanced Projects

- Sound Reactive Bluetooth Speaker
- Programmable Macro Pad
- Guitar Pedal
- DIY Airtag/GPS Tracker
- Smart Mirror
- Live Weather Station
- ESP32 Text to Speech Webserver
- Productivity Logger
- Smartwatch

Signup Form

Additional Information

- Projects can continue into spring semester especially advanced ones.
- Project teams can meet outside of scheduled meeting times.
- You can go over budget but it will be out of pocket.
- Highly recommended to be in a group.
- No limit to group size only limit is budget.

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Next Week's Session:

- Finalizing teams
- Brainstorming project ideas
- Microcontroller workshop

Next session will be on **Monday, September 23**