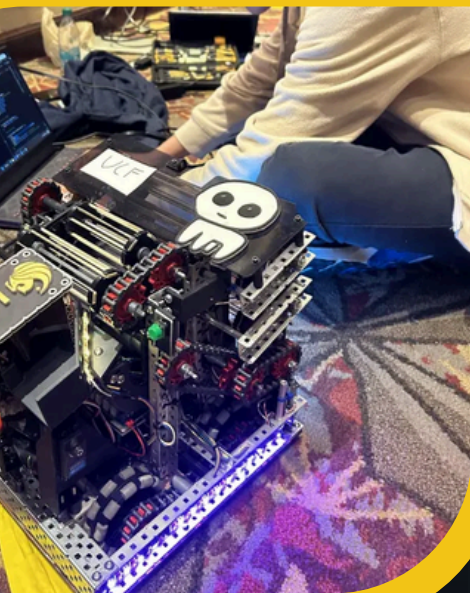


2025-2026



UNIVERSITY OF CENTRAL FLORIDA

IEEE STUDENT BRANCH SPONSORSHIP PACKET



IEEE@UCF.EDU

BACKGROUND

IEEE (Institute of Electrical and Electronics Engineers) UCF is a student branch division to the larger organization, IEEE, which comprises of academic professionals and industry members. Our student chapter is one of the largest in the nation and boasts over 300 active members. Our club is professionally driven with various projects and workshops that provide technical experience but most importantly a tight community of social and like-minded student engineers.



“IEEE UCF equips members with hands-on skills and a collaborative environment, fostering innovation and professional development for successful careers in diverse engineering fields.”

MISSION STATEMENT

As a Department Sponsored Student Organization, we offer a diverse array of events designed to impart technical skills, professional development, and personal growth to aspiring engineers and technology enthusiasts - including technical project-based workshops, skill trainings, professional development events, industry-level annual projects, social activities, and numerous other enriching opportunities.

WHY SPONSOR IEEE UCF?



WHAT'S NEXT?

The coming year promises an exciting lineup of events and collaborations for IEEE UCF members. Members can look forward to participating in hardware competitions that develop critical engineering skills. Our upcoming workshops will equip them with essential technical skills spanning RISC-V computer architecture design and PCB development.

IEEE projects and workshops this coming school year will include:

- Analog/PCB Design
- Robotic Systems
- Digital Design/Verification
- Semiconductor Manufacturing/Design
- Embedded Programming
- Computer Vision/Machine Learning
- Software Development
- Signal Processing

BACKGROUND

IEEE (Institute of Electrical and Electronics Engineers) UCF is a student branch division to the larger organization, IEEE, which comprises of academic professionals and industry members. Our student chapter is one of the largest in the nation and boasts over 300 active members. Our club is professionally driven with various projects and workshops that provide technical experience but most importantly a tight community of social and like-minded student engineers.



“IEEE UCF equips members with hands-on skills and a collaborative environment, fostering innovation and professional development for successful careers in diverse engineering fields.”

MISSION STATEMENT

As a Department Sponsored Student Organization, we offer a diverse array of events designed to impart technical skills, professional development, and personal growth to aspiring engineers and technology enthusiasts - including technical project-based workshops, skill trainings, professional development events, industry-level annual projects, social activities, and numerous other enriching opportunities.

WHY SPONSOR IEEE UCF?



WHAT'S NEXT?

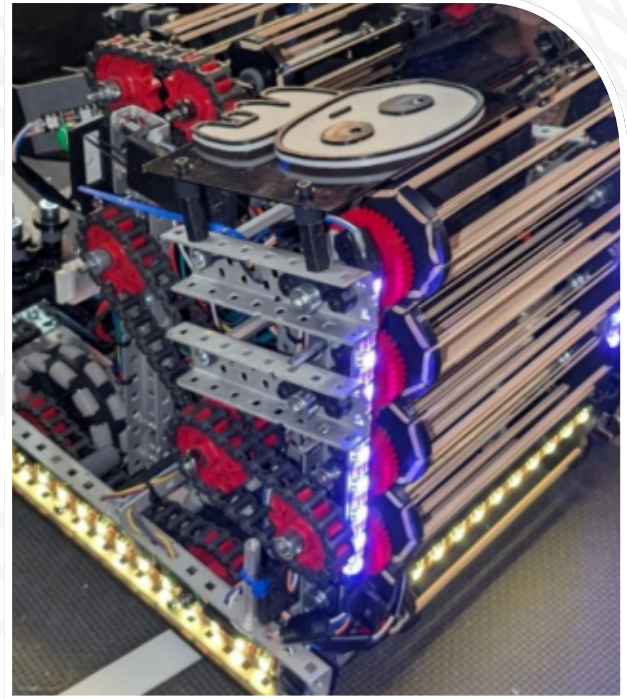
The coming year promises an exciting lineup of events and collaborations for IEEE UCF members. Members can look forward to participating in hardware competitions that develop critical engineering skills. Our upcoming workshops will equip them with essential technical skills spanning RISC-V computer architecture design and PCB development.

IEEE projects and workshops this coming school year will include:

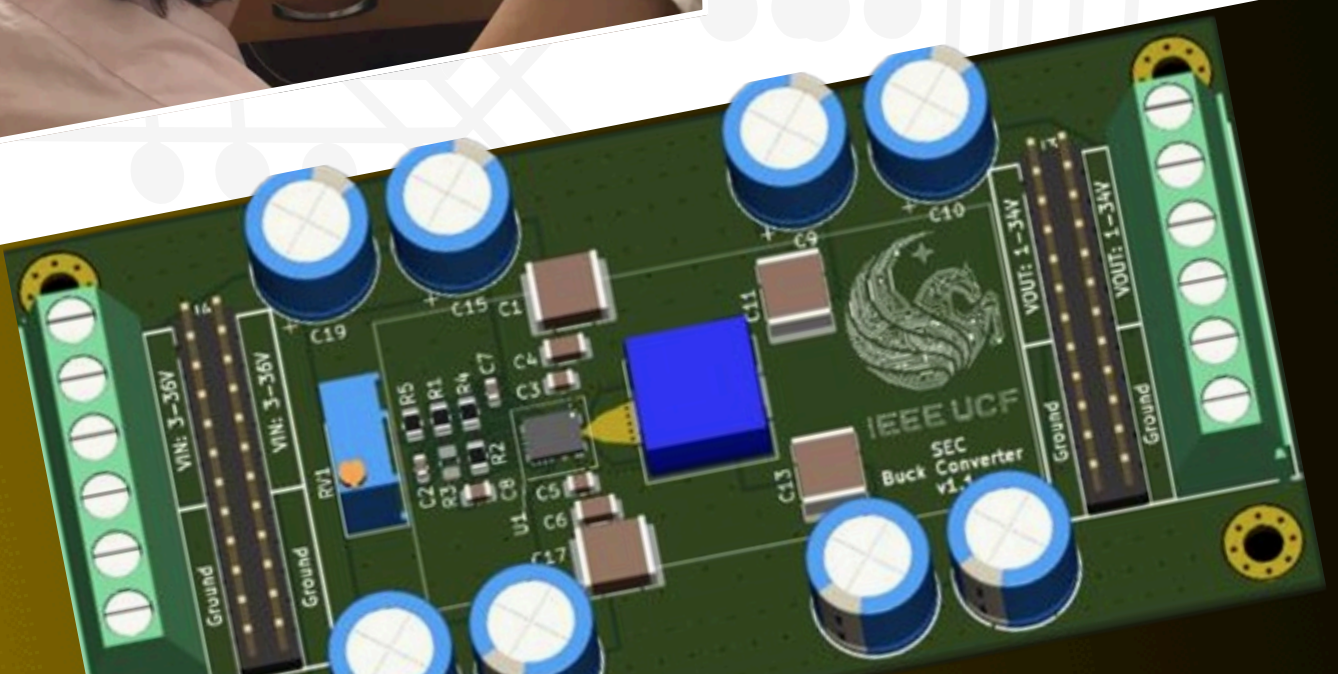
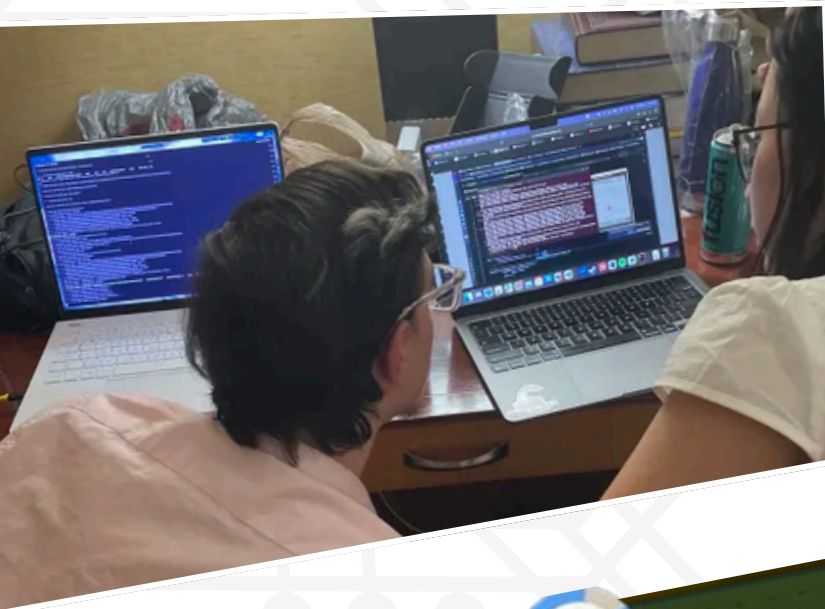
- Analog/PCB Design
- Robotic Systems
- Digital Design/Verification
- Semiconductor Manufacturing/Design
- Embedded Programming
- Computer Vision/Machine Learning
- Software Development
- Signal Processing

SOUTHEASTCON HARDWARE COMPETITION

One of our chapter's premier projects is our involvement in the SoutheastCon Hardware Competitions. In this past 2025 conference, the team secured first place in the Design Competition and second place in the Hardware tournament-based Competition. Our award-winning robot exemplifies advanced engineering, featuring a sophisticated H-drive drive train for superior maneuverability and a passive rubber band tube intake system for efficient game piece collection. The robot's intelligence is powered by ROS2 Jazzy, utilizing OpenCV for real-time astral material detection and a search algorithm for optimal navigation.



Furthermore, our custom-designed Teensy 4.1 microcontroller breakout boards and a robust buck converter highlight our expertise in embedded systems and electrical design, ensuring reliable and precise operation. This project showcases our chapter's commitment to excellence in mechanical, software, and electrical engineering.



INTERNAL PROJECT COMPETITION



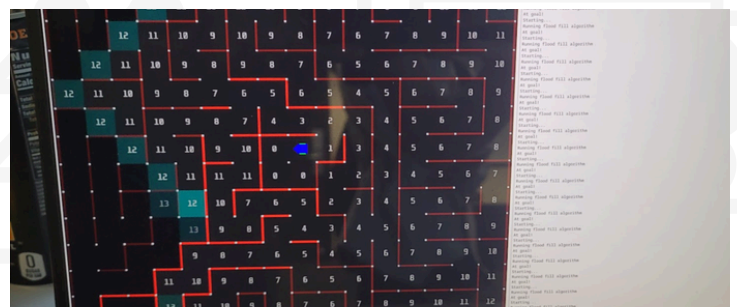
IEEE UCF also hosts beginner projects. The internal project competition is a two semester program that provides a set curriculum of 8 - 9 workshops that focus in on key areas of engineering, including embedded programming and electrical and mechanical design. Students who participate are able to choose two paths: “beginner projects” or “advanced projects”.

Participants are encouraged to work in groups as they build and design their own projects. At the end of the spring semester teams compete in their chosen category with the potential to win awards at the annual IEEE UCF banquet.

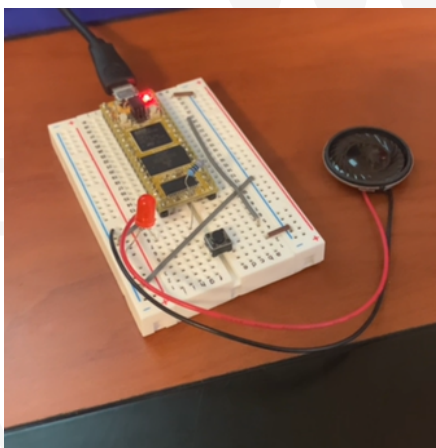
MICROMOUSE

As participants in the global Micromouse competition, IEEE UCF is engineering a fully autonomous robotic device. The challenge requires the robot to dynamically map and navigate an unknown environment, calculating the most efficient path to the center.

This project combines embedded systems, PCB design, pathfinding algorithms, autonomous navigation, control systems, and CAD modeling.



GUITAR HERO



The IEEE UCF Guitar Hero project aims to develop a comprehensive suite of digital audio effects as well as an analog fuzz pedal.

This project utilizes advanced digital signal processing, programmed with C++, and coupled with embedded circuit design for efficient, real-time operations. The goal is a robust system that accurately emulates various guitar effects.

WORKSHOPS



IEEE UCF workshops are high-impact sessions that introduce students to practical engineering skills. Each semester, we host ~5 workshops spanning embedded systems, SMD soldering, PCB design, circuit measurement, digital design, RF, and more. Workshops are beginner-accessible but industry-relevant, combining technical theory with hands-on activity. Sponsors are invited to participate through short introductions, technical guest speaking, and post-workshop networking/Q&A with attendees.



PROFESSIONAL DEVELOPMENT

IEEE UCF is also focused on teaching professional development strategies and tactics to improve member marketability. Members are exposed to resume, LinkedIn, portfolio, and elevator pitch workshops. We also provide mentoring programs.

Members involved in professional development are able to put themselves above others with their confidence and presentation skills.



SERVICE



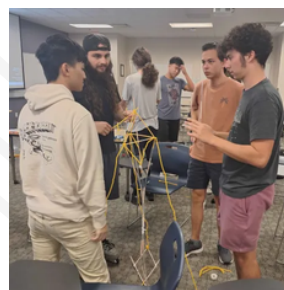
Service is another significant aspect to IEEE UCF community involvement. As students in engineering, we pass our skills down by exposing local elementary, middle, and high school students to electrical and computer engineering concepts.



We also focus on the community by donating and lending time to food pantries and other nonprofits.

SOCIAL

Part of being an IEEE UCF member allows you to engage in social events that are hosted regularly and allow for the club to build a community. Some social events have also involved industry collaborations and networking opportunities. Members also get comfortable expressing themselves around others, improving relationship building.



MEMBER PROFILE



KAI SPRUNGER

MEMBER STATEMENT:

I feel like I would not be the person I am today without being involved within IEEE. Being a part of this incredible community has connected me to amazing professional, technical, and social opportunities. I'm so grateful to have participated in the 2025 Southeastcon Software Competition and I feel like I have learned so much about the software development process from it. Additionally, I am glad to have served as the 2025 Professional Development Chair and have helped others obtain the same opportunities that have helped me so much. IEEE has definitely played a significant role in fostering my growth as a software engineer.



HONORS COMPUTER SCIENCE | SOFTWARE CHAIR & EX. PROFESSIONAL DEVELOPMENT CHAIR | SWE INTERN AT NVIDIA | KNIGHT HACKS EVENT ORGANIZER

RUSSELL RIDLEY

MEMBER STATEMENT:

I spent a long time debating whether to focus on software or hardware in computer engineering. Joining IEEE was the turning point. Surrounded by passionate, talented students, I not only learned a tremendous amount about hardware and electrical systems, but also made some of my closest friends. The collaborative projects, late-night build sessions, and constant support from the community solidified my decision to pursue a hardware-focused path. It's where everything finally clicked.



COMPUTER ENGINEERING VLSI | SEC HARDWARE COMPETITION - ELECTRICAL TEAM | SPACECRAFT POWER ENGINEER INTERN AT THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY | UNDERGRADUATE TEACHING/LEARNING ASSISTANT FOR LINEAR CIRCUITS I

MICHAEL CASTIGLIA

MEMBER STATEMENT:

Coming from FIRST Robotics Competition in high school, I knew the major impact clubs can have. I joined IEEE because one of the current officers helped me select my classes for my freshmen year. Coming to the first GBM, I was hooked. The friends and community I have been able to make over my years in IEEE has been invaluable and what I believe to be a major part in getting to where I am today, both personally and professionally, not to mention the technical skills I learned along the way. Largely because of IEEE, I'm living my dream. It became my home away from home, where most of my friends came from.



COMPUTER ENGINEERING VLSI | IEEE-HKN PRESIDENT | TREASURER & EX. SOFTWARE CHAIR | EX. POWER GENERATION INTERN AT NEXTERA ENERGY RESOURCES | 2X GRAPHICS FORMAL VERIFICATION ENGINEERING INTERN AT AMD | GRAPHICS FORMAL VERIFICATION ENGINEER AT AMD

SPONSORSHIP TIERS



	CITRONAUT \$1500	KNIGHTRO \$2500	PEGASUS \$4500+
CITRONAUT TIER (\$1500)			
Logo on the IEEE UCF website	✓	✓	✓
Access to the IEEE UCF resume database	✓	✓	✓
Advertisements for job postings	✓	✓	✓
A dedicated technical/social workshop every semester	✓	✓	✓
Invitation to the annual industry networking event	✓	✓	✓
KNIGHTRO TIER (\$2500)			
Logo on event banners/merchandise		✓	✓
A dedicated recruitment event every semester		✓	✓
Direct mentorship pairing between your engineers and our project leads		✓	✓
Private dinner/mixer with top-performing students each semester		✓	✓
Logo on the IEEE SoutheastCon Robot		✓	✓
PEGASUS TIER (\$4500+)			
Guaranteed speaker spot at a general body meeting			✓
You define a project, we build it, you own it			✓
Exclusive “first look” at the IEEE UCF resume database before career fair season			✓
Advisory board seat with direct input on club initiatives and project direction			✓

***HIGHER TIERS INCLUDE ALL INCENTIVES FROM PREVIOUS TIERS**