



IEEE

University of California
Santa Barbara

**SPONSORSHIP
PACKAGE**

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OVERVIEW

The Institute of Electrical and Electronics Engineers is the world's largest technical professional organization and is dedicated to advancing various fields, including electrical and computer engineering.

We at UCSB's IEEE student branch believe in cultivating the future of the engineering workforce by challenging students with complex technical projects and equipping them with the knowledge and resources needed to achieve success.

To facilitate this, we provide lab-space, funding, and opportunities to network with like-minded students, industry representatives, and recruiters.

While the world
benefits from what's new,
IEEE is focused on what's next

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PROJECTS

CLUB WIDE PROJECTS

Every year, UCSB IEEE picks at least one advanced project to complete as a club. Most recently, we created our Double Resonant Solid State Tesla Coil. These projects are a way to engage the more advanced members and complete a project that IEEE can take pride in.

GUIDED PROJECTS

Every quarter UCSB IEEE offers a hardware, a software, and a combined hardware and software project class. These classes are designed and taught by officers to members who choose the class that best suits their interests.

NATCAR

NATCAR is an annual competition where autonomous cars follow an irregularly shaped line using either inductive or optical sensors. UCSB's IEEE branch has participated for several years and is committed to continuing in the future.



Guided Projects

3D Snake LED Cube

LED matrix on custom designed PCBs programmed via on-board microcontroller for user-interactive games

Plasma Speaker

Music signal encoded to PWM drives a high voltage transformer that outputs sound through the voltage arc

Bluetooth-Controlled Smart Lamp

Firmware level software design wirelessly transmits to a custom fitted PCB to control a color pattern LED lamp

Python Snake Game

From-scratch software implementation of the classic game snake, providing real-life examples of the power of object-oriented programming

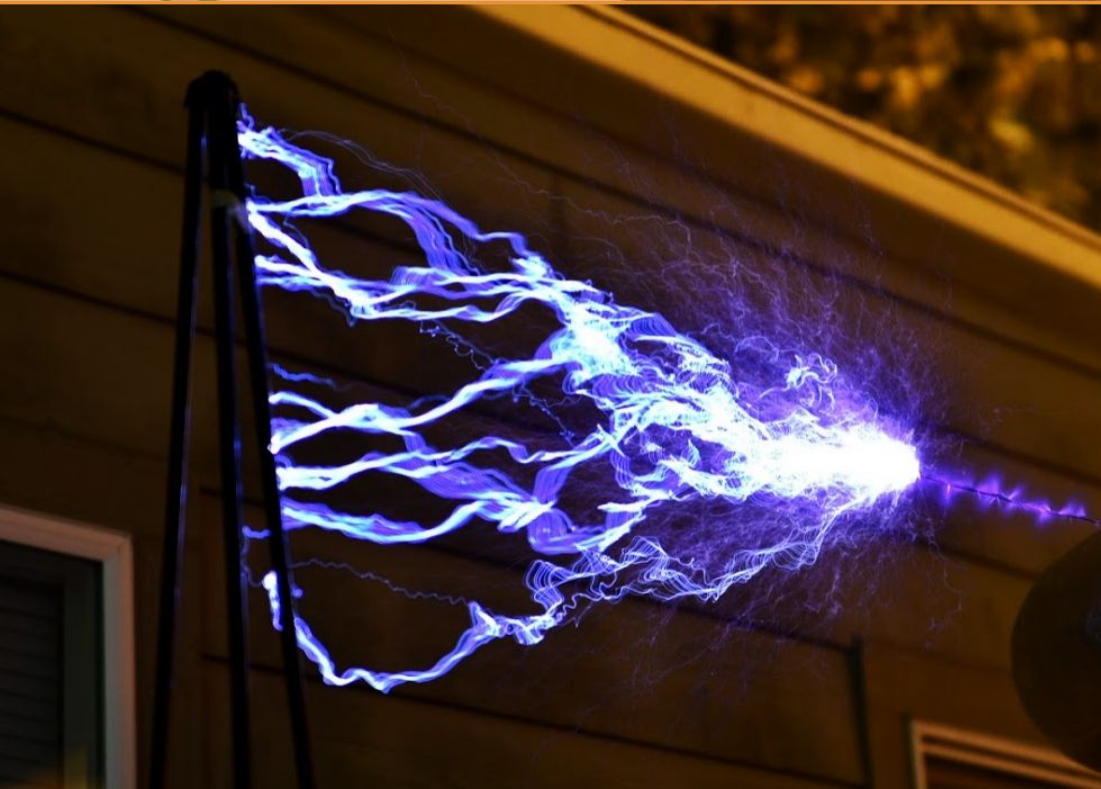
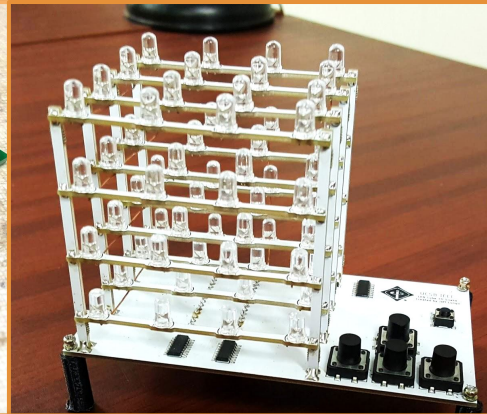
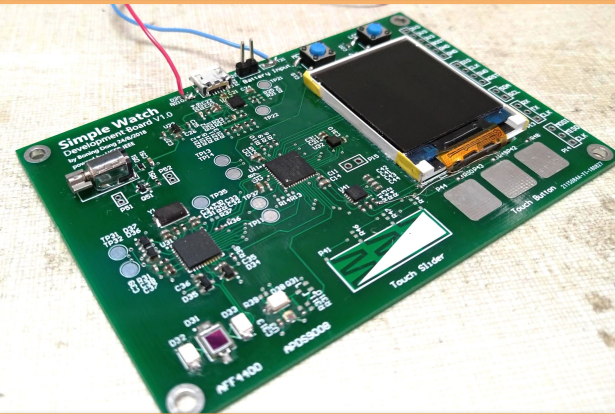
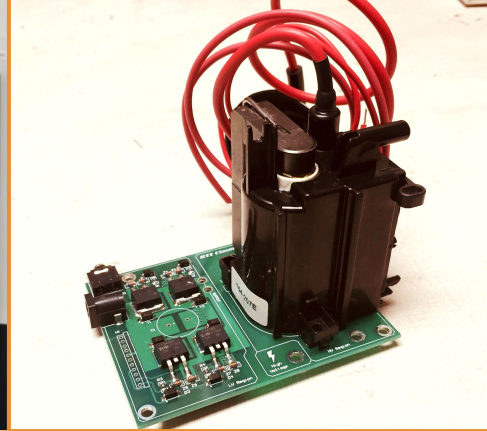
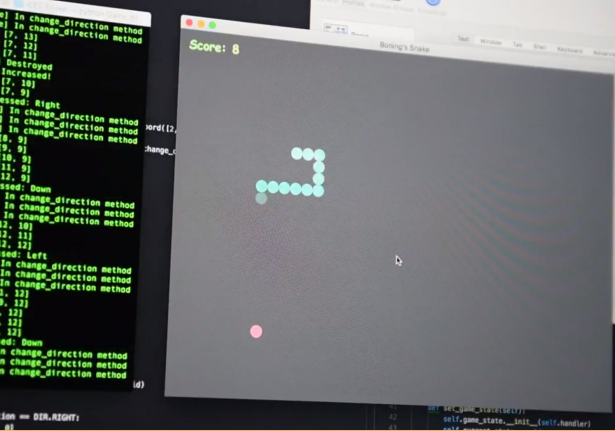
2D World Builder Game

Introduction to open-world game design providing framework for multiplayer real-time games

Club Wide Projects

Dual Resonant Solid State Tesla Coil

Our self designed solid state tesla coil can generate can generate long lightning bolts and even play music using the high voltage arcs. This provided participants with a way to strengthen their PCB design, power electronics, control, and RF knowledge.



EVENTS

Beach BBQ

Especially given the introverted engineer stereotype, IEEE realizes that networking and social events—such as our annual Beach BBQ—are key to fostering comradery, communication, and collaboration.

IEEEXtreme

While collaboration is crucial, competition gives IEEE members an edge as engineers. Along with NATCAR, we compete against universities across the globe in IEEEXtreme, a 24-hour programming challenge.

Hardware Hackathon

This year, IEEE is developing its own competition: a hardware hackathon that will connect developers, designers, and tinkerers in an environment that is both competitive and collaborative.

Colorfight!

In addition to Hardware Hackathon, UCSB IEEE hosts a multi-university game AI competition. This competition gives us the opportunity to meet members of other IEEE branches while testing the skills of the participants.





FACILITIES

IEEE Lab-Space

IEEE offers lab-space to its members for collaboration on independent and class projects. The lab is the campus center for student electronics projects with multiple soldering stations, fully-stocked parts bins, and other useful power tools.

3D Printer

A generous sponsor has enabled us to purchase a 3D printer for our lab. This gift has given members the opportunity to prototype their ideas from paper to plastic, yielding several fantastic projects.

UCSB Facilities

IEEE eases the process of holding events by booking UCSB facilities for students and companies. Popular events include student competitions, résumé workshops, info-sessions, and Tech Talks.

A photograph of a man in a red shirt standing at a podium, presenting to an audience seated in a lecture hall. Two large screens are visible in the background. The audience is seen from behind, seated in rows of chairs. The man is holding a laptop and gesturing towards the screens. The room has a modern, professional feel with wood paneling and a staircase in the background.

TECH TALKS

IEEE continues to expand its horizons by hosting talks from cutting-edge companies and research groups. Numerous leaders and pioneers have joined IEEE in holding info sessions, Tech Talks, and recruiting events.

Through these events, successful companies hire IEEE members for internships and full-time positions.



Education

Hands-on learning is at the core of IEEE. We offer students real-world skills and practical knowledge by hosting student-led workshops and faculty seminars. Our workshops include Intro to Electronics, Soldering, PCB Design, 3D Printing, and Guided Projects.

We know that, in addition to technical learning, it is important to develop transferable workforce soft skills. As such, we provide résumé critiques, interview prep, and networking strategies for job fairs and LinkedIn.

Sponsor the Future



BENEFITS

Bronze \$300	Silver \$500	Gold \$1000	Diamond \$2500	Elite \$5000
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Publicized Tech Talk	✓	✓	✓	✓	✓
Logo on Website	✓	✓	✓	✓	✓
Logo on T-shirts / PCBs		✓	✓	✓	✓
Résumé Book			✓	✓	✓
Recruiting Event*			✓	✓	✓
Logo on NATCAR / Colorfight Competition			✓	✓	✓
Banquet Invitation				✓	✓
Logo on Purchased Equipment				✓	✓
Additional Negotiable Benefits					✓

* Recruiting events may include tech talks, résumé or interview workshops, or onsite interviews.

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