

IEEE AT UC DAVIS

CORPORATE SPONSORSHIP FORM

2018 - 2019

PRESIDENT'S LETTER

Dear Valued Industry Representative,

Thank you for your interest in supporting the Institute of Electrical and Electronics Engineers (IEEE) at UC Davis! Our club's success is a result of the support of our generous industry sponsors. Contributions of time and resources from sponsors like you have enabled IEEE at UC Davis to maintain our mission of cultivating a stimulating and supportive academic community for the engineers at our university.

Whether it be through company involvement or donation, it is a result of the generous contributions of our supporters that our club yields such successful, practiced engineers. IEEE greatly values the opportunity to provide engineers with the opportunity to gain a practical skillset not seen in their academic curriculum, as well as to develop their professional skills in organization, teamwork, leadership, etc. Corporate sponsorship enables IEEE at UC Davis to enrich the knowledge of our members through technical workshops, long-term projects, and industry/career-building events. At any level, your engagement and support is immensely appreciated.

In the pages following, you will find:

- contact information for our 2018 – 19 IEEE officers,
- information regarding the uses of your contributions: long-term projects, technical workshops, industry events, club outreach, etc.,
- a description of the various opportunities available for your continued support of IEEE,
- and more!

We look forward to working with you to make this another successful year for IEEE. Thank you again for your generous support!

Sincerely,

Veronica Contreras
IEEE President, 2018 - 2019
University of California, Davis

OUR 2018 – 19 IEEE OFFICERS:

POSITION	OFFICER	EMAIL
President	Veronica Contreras	vacontreras@ucdavis.edu
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Secretary	Yamini Sharma	ysharma@ucdavis.edu
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Industry Coordinator	Ananye Agarwal	aagarwal@ucdavis.edu
Industry Coordinator	Daniel Vallejo	davallejo@ucdavis.edu
Project Manager	Kolin Guo	kolguo@ucdavis.edu
Project Manager	Frank Lee	fralee@ucdavis.edu

For general inquiries, you may also contact our organization at ieeefofficers@ucdavis.edu.

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CONNECT WITH IEEE

INDUSTRY EVENTS

Through IEEE industry events, we invite companies in the field of electrical and computer engineering to hold events such as the following:

- Information Sessions
- Resume/Interview Workshops
- Technical Workshops

In this setting, industry representatives can share information regarding the mission, products, and opportunities of their company. The goal of these events is to give IEEE members insight into the vast applications of electrical and computer engineering so that they can gauge their interests within the field. This also opens up career opportunities for both IEEE students as well as industry employers.

In the past, we have hosted companies such as Intel, Keysight Technologies, Varian Medical Systems, Texas Instruments, and more in a variety of event settings. We are always seeking to maintain these industry partnerships as well as to host new companies on our campus and develop a strong relationship between industry representatives and our members. Our ultimate goal is to give IEEE members access to a broad range of career opportunities, and to expose them to different concentrations within the field.

If you are interested in coming to our campus for such an event, please contact our Industry Coordinators.

WORKSHOPS

As an engineering club, we believe that hands on experience is crucial to a quality, well-rounded education. As UC Davis is a top-tier research university, we strive to build further upon the hands-on lab experience seen in UCD coursework through our IEEE technical workshops.

In these workshops, our members work with various software/hardware to develop a functioning model related to the subject of the workshop. These workshops are always designed so that all university experience levels can attend and develop new skills. We also have held workshops in the past specifically for underclassmen in order to introduce freshman and sophomores to the hands-on labs within the major.

For the upcoming academic year, we have multiple workshops planned for our members. If you are interested in supporting in these workshops, please contact our Industry Coordinators. If you would like more technical information regarding workshops, please contact our Project Managers.

PICNIC DAY SHOWCASE

Picnic Day is a unique, day-long event, held annually only on the UC Davis campus. It is a 109 year old tradition filled with plenty of activities for students, family, friends, and the community to enjoy. As a club, we use this opportunity to showcase the hard work and final products of the various long-term IEEE projects. This event allows IEEE project team members to connect with the wider campus community while simultaneously giving visitors a chance to understand more about electrical and computer engineering. Please see the "Projects" section below for more information regarding past IEEE projects.

We encourage everyone to stop by our booth during the next annual Picnic Day: April 13, 2019, located in Kemper Hall of Electrical and Computer Engineering! If you would like to learn more about IEEE projects, please contact our Project Managers.

GENERAL MEETINGS

IEEE hosts general meetings regularly throughout each quarter so that new members can learn more about the club's activities as well as meet new members. During these meetings, we discuss upcoming events as well as any important announcements for the members.

If you are interested in having IEEE announce industry information regarding your company at one of our general meetings (such as open positions, a campus event, or an event at your site), please contact our Secretary.

PROJECTS

PAST PROJECTS

Bionic Arm – First Place at ZS Ventures Business Competition

Advancements in medical device technology have allowed scientists and engineers to challenge the boundaries of physical disability, fostering the creation of a world accessible to all humans. IEEE's Bionic Arm was a two-year project emphasizing in medical device design and construction. In its first year, the team of engineers designed and manufactured a voice-controlled, 3-D printed prosthetic arm which moved according to a user's vocal commands. In its second year, the team went on to improve the design through the addition of a secondary glove which mimicked the motions of the master glove. IEEE's Bionic Arm team won first place at the 2018 ZS Ventures Business Competition for its highly marketable application to demands of the growing medical device industry, as well as its well-crafted engineering design.

SwarmBots – Top Four Finalist at ZS Ventures Business Competition

The recent surge in artificial intelligence (AI) spurred the creation of this project, a professional application to robotics and AI. In the 2017 – 18 year, IEEE's SwarmBots team designed and manufactured prototypes of the 2x2x2" bots which utilized "smart" spatial awareness in order to coordinate with surrounding bots to move and form into different shapes for a variety of functional applications. The team placed as a top four finalist at the 2018 ZS Ventures Business Competition for its stand-alone execution amongst the wave of other AI applications, as well as its intricate robotics design. We expect SwarmBots to continue into the upcoming year, likely teaming up with the recently founded UC Davis Artificial Intelligence Society to refine the hardware design and algorithm, as well as to excel in further competitions.

UPCOMING PROJECTS 2018 - 19

Ultrasonic-Based Virtual Sketchpad

Today, many artists use digital sketchpads to create digital artwork. However, the physical sketchpad often takes up too much space and requires a stylus. This project implements the design of a "virtual" sketchpad which uses sensors to detect the movement of a pen, eliminating the need for a physical sketchpad. We will implement a "virtual" 32x32 pixel sketchpad using a TI CC3200 LaunchPad and two ultrasonic sensors. The sketch will be displayed on a 128x128pixel OLED screen in real time. Users can interact with an IR remote to select the colors of the pen as well as send the finished sketch to an Amazon Web Services (AWS) S3 bucket which automatically converts the sketch to a PNG file for downloads.

SPONSORSHIP LEVELS AND CORPORATE INVOLVEMENT

SUPPORT IEEE STUDENTS

We are excited to let you know that there are many ways that you can support IEEE at UC Davis! Without contributions from companies like you, we would neither be able to maintain the supportive engineering community that we are today, nor would we have the opportunity to grow even further.

Below we've listed several ways that you can help IEEE at UC Davis. All donations are **tax-deductible**.

Parts

You can directly support our club through generous donations of electronics parts! These supplies would fund more hands-on IEEE workshops as well as allow our long term academic projects to become a reality.

Donations

You can also contribute to IEEE at UC Davis through monetary donations, which go directly toward our supporting our projects, events, and individual memberships.

Engagement

By hosting or sponsoring a workshop, seminar, or another event, you will have the opportunity to engage with UC Davis's next generation of engineers, as well as expose IEEE members to your company.

TIERS OF SUPPORT

We want to thank you for your support! When we engage with our members, university community, or the public at large, your contributions will be proudly promoted via our club t-shirts, presentations, etc. Any material or monetary donations will contribute to your sponsorship tier. The four tiers of sponsorship are listed below:

PLATINUM

\$1000+

GOLD

\$500+

SILVER

\$200+

BRONZE

\$100+

CORPORATE SPONSORSHIP FORM

If you are looking to sponsor IEEE at UC Davis, please review the various ways that you can contribute to our organization below:

INFORMATION

Contact Name _____
 Email _____
 Phone _____
 Company _____
 Address _____
 City/State/Zip _____

CONNECT WITH IEEE AT UCD

- General Meeting Speaker
 Industry Workshop

Representatives

Name 1: _____	Name 2: _____
Email: _____	Email: _____
Phone: _____	Phone: _____

Will the speaker be accepting resumes?

Yes No

Please indicate the disciplines from which you hire:

- | | |
|---|---|
| <input type="checkbox"/> Electrical Engineering | <input type="checkbox"/> Computer Science and Engineering |
| <input type="checkbox"/> Computer Engineering | <input type="checkbox"/> Other (please list below) |

Please give a brief description of what you would like to accomplish at this event (i.e., Information Session, Resume/Interview Workshop, Technical Workshop/Demo, etc.)

SUPPORT IEEE STUDENTS

Membership:

Incoming IEEE at UCD membership is \$20 per student.

Voluntary Donation Amount: _____

Projects

Are you interested in sponsoring IEEE projects? (If you indicate "Yes", our Industry Coordinators will reach out with more details)

Yes No

One-Time Donation to IEEE projects:

Voluntary Donation Amount: _____

What projects are you interested in learning more about?

- Bionic Arm
- SwarmBots
- Virtual Sketchpad

Please describe any projects that you would be interested in seeing from IEEE next year:

QUESTIONS?

Event Related/General IEEE Questions: Secretary, Yamini Sharma

Industry Related Questions: Industry Coordinators, Ananye Agarwal & Daniel Vallejo

OR

Please visit us at our website <https://ieeecdavis.weebly.com/> for more information regarding our mission, IEEE projects, workshops, events, and more!

Thank you for your support!