



**CU**  **LUV**

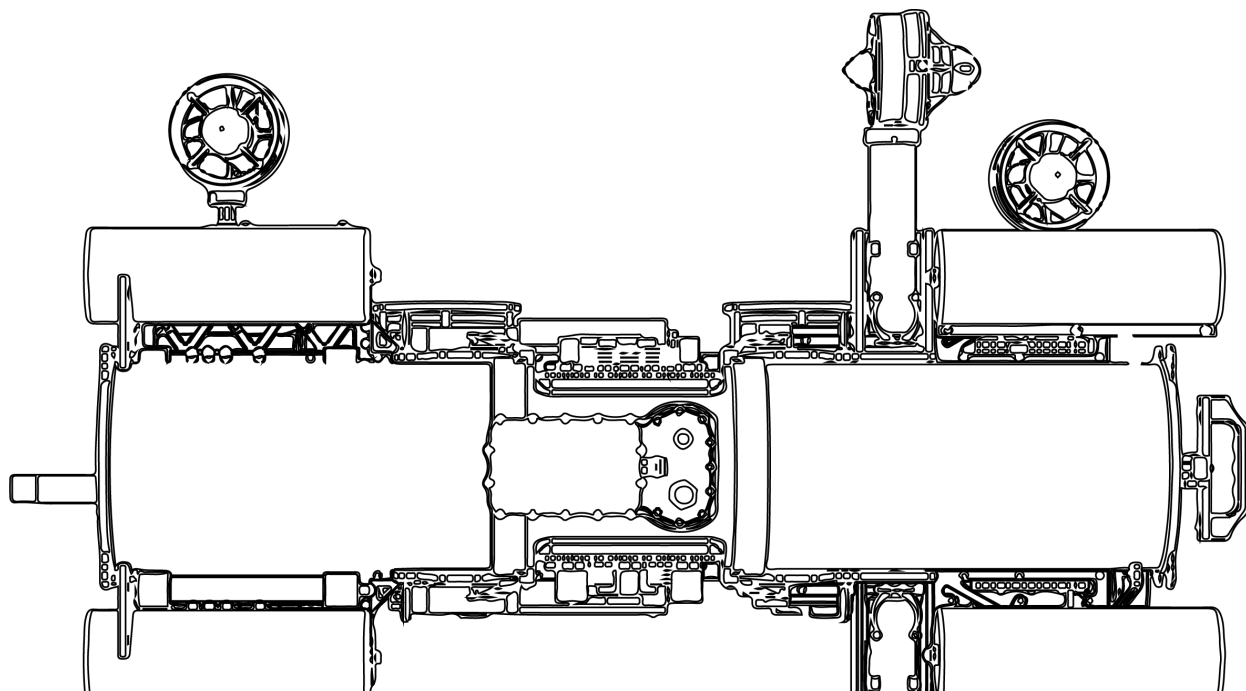
**2019 SPONSORSHIP PACKET**

# ABOUT US

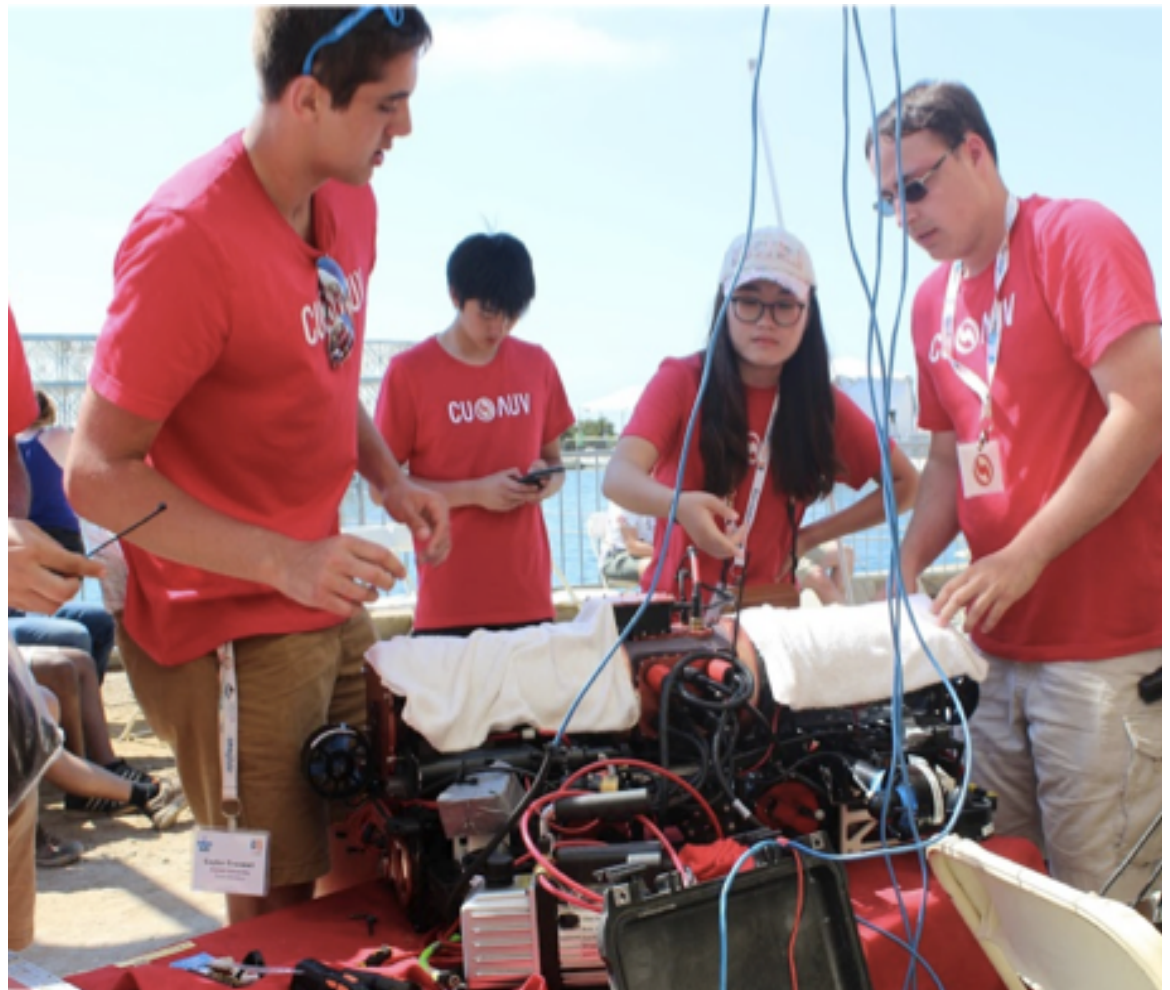
## RESEARCH, DESIGN

We are a team of students exploring the cutting edge of unmanned underwater vehicle technology.

CUAUV designs, builds, programs and tests two completely new autonomous submarines every year to compete in the Association for Unmanned Vehicle Systems International (AUVSI) International RoboSub competition. In August, we ship our subs down to San Diego, drop it in a recommissioned Navy testing pool, press the green button, and cheer it on as it navigates a complicated underwater obstacle course with no human intervention whatsoever: ramming buoys, dropping weighted darts on Space Invader-shaped objects, firing torpedoes through differently colored targets, re-positioning PVC structures and more.



# IGN



CUAUV is entirely undergraduate-run, consisting of 45 students spanning numerous academic disciplines. The team offers a holistic engineering experience developing cutting-edge technology. As a seven-time RoboSub champion, CUAUV embodies a tradition of excellence and continuously pushes the envelope of autonomous underwater vehicle technology.

# BUILD, WIN



## **Mechanical:**

CADs, fabricates, and tests the enclosures and structures, as well as develops the pneumatic systems for field manipulation.

## **Electrical:**

Designs and populates the custom printed circuit boards that distributes power and processes signals throughout the vehicles

## **Business:**

Maintains strong partnerships with sponsors, design and develop team marketing material, manage team finances and organize outreach events.

## **Software:**

Develops the software infrastructure for vehicle control, mission planning, and computer vision.

**Founded: 1999**

**Members: 45**

**Majors: 7**

**Subteams: 4**

**AUVSI RoboSub Champions: 7**





# OUR YEAR

## Fall

In the fall, the mechanical and electrical teams spend the majority of the semester designing next year's vehicles. Software performs training and testing sessions on last year's vehicles. Weekly 5-hour pool tests are held for new members to learn about the old subs.

## Spring

The mechanical and electrical teams fabricate, test and integrate their parts into the new vehicles, while software upgrades the software stack for the new designs. Weekly 5-hour pool tests are held for in-water testing and mock competition runs.

## Summer

Team members spend their summer on campus working in lab, training and testing for competition. In July, we ship our vehicles to San Diego and fly out to TRANSDEC, a Navy testing pool, press the green button, and cheer it on as it navigates a complicated underwater obstacle course with no human intervention whatsoever!

# ODYSSEUS

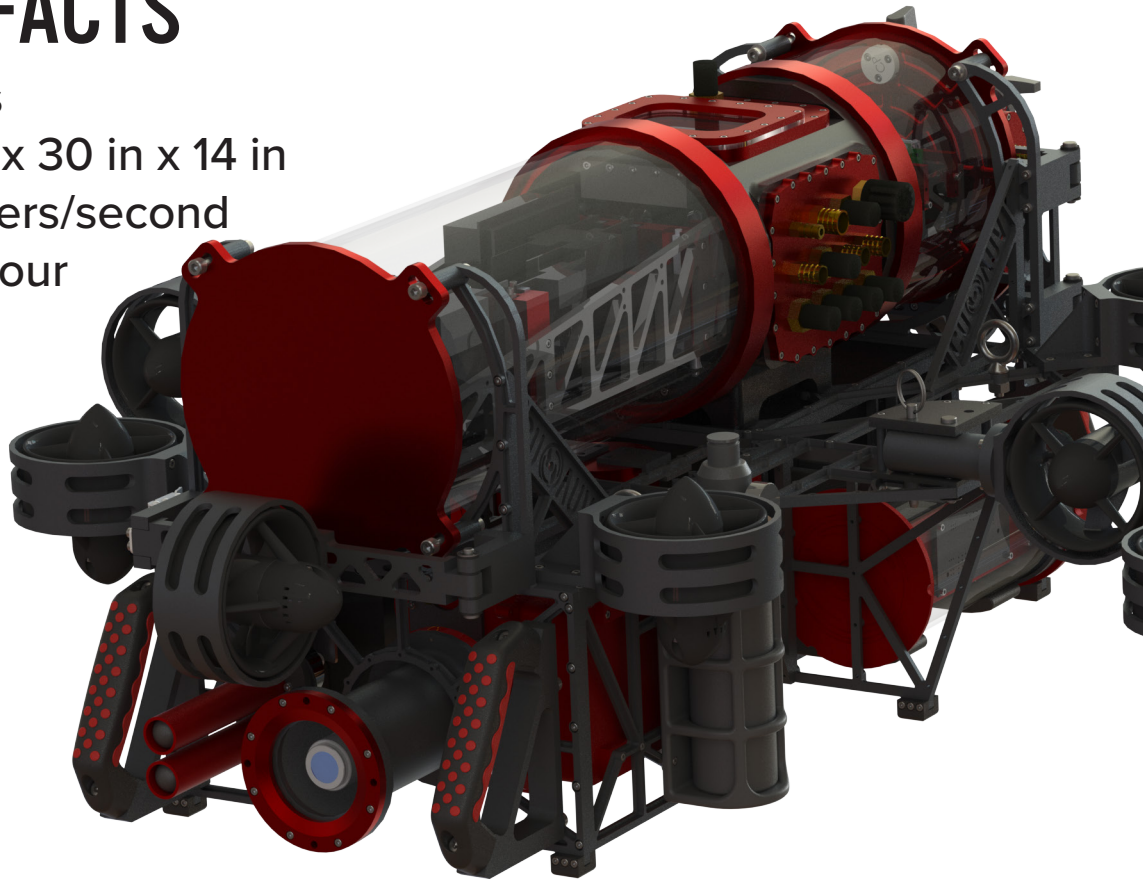
## IMPORTANT FACTS

**Dry Weight:** 85 lbs

**Dimensions:** 37 in x 30 in x 14 in

**Max Speed:** 2 meters/second

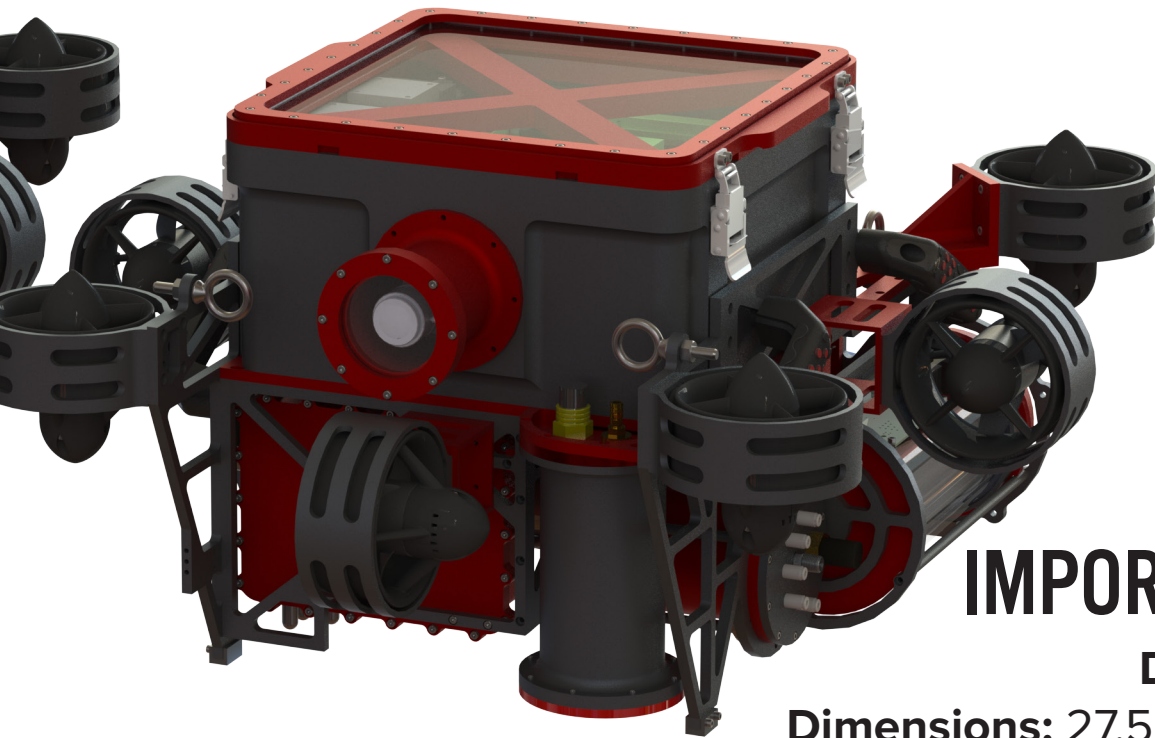
**Max Run Time:** 1 hour



HEROS OF THE ILLIAN  
VICTORS  
VO



# R TWO FIGHTERS



## IMPORTANT FACTS

**Dry Weight:** 50 lbs

**Dimensions:** 27.5 in x 24.5 in x 13 in

**Max Speed:** 2 meters/second

**Max Run Time:** 1.5 hours

# AJAX

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OF TROY  
YAGERS OF THE SEA

# SUPPORT US

## SPONSOR THE TEAM

The team depends on the generous support of its sponsors and could not exist without them. By lending your gracious support, you enable CUAUV to continue improving autonomous underwater vehicle technology.

### **PLATINUM: OVER \$3,000**

- Company logo on bi-annual newsletter sent to alumni, staff and other sponsors
- Company logo prominently displayed on competition vehicle's LCD screen
- Large Company logo on 2019 competition uniform
- Large company name, logo and website link on the team website
- Company name on 2019 competition paper, poster, and brochure
- Priority for company info-session hosting with team
- Sponsor Spotlight on Social Media

### **GOLD: \$3,000 to \$1,000**

- Company logo displayed on competition vehicle's LCD screen
- Company name on 2019 competition journal paper, poster, and brochure
- Priority for info-session hosting with team
- Sponsor Spotlight on Social Media
- Medium Company logo on 2019 competition uniform
- Large company name, logo and website link on the team website

### **SILVER: \$1,000 to \$500**

- Small Company logo on 2019 competition uniform
- Company name on 2019 competition journal paper, poster and brochure
- Priority for info-session hosting with team

### **BRONZE: \$500 to \$100**

- Company name on 2018 competition journal paper, poster and brochure
- Priority for info-session hosting with team.



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GET CORNELL  
TALENT WITH

CUAUV

## SPONSORSHIP PERKS

As a sponsor, your company will have access to CUAUV's updated team resume book featuring highly qualified undergraduate students interested in both full-time and internship positions. Your company will also be featured across our website, competition paper, posters, and brochures.

## HOST AN INFO SESSION

CUAUV is a great way for your company to reach out to highly qualified and engaged Cornell students majoring in related engineering fields. Together through our Cornell Engineering Project Team network and our strong, long-standing campus presence, we can help expose students to your employment opportunities and cater to your specific needs to organize and advertise a custom event that will maximize your recruitment efforts.

# OUTREACH

## CUAUV FACES THE

### COMMUNITY OUTREACH EVENTS

Along with hosting lab tours with visiting companies, we organize multiple outreach events to better acquaint the greater Cornell and Ithaca communities with our team and our sponsors. Along with lab tours to visiting schools and organizations, we visit local elementary, middle and high schools for various STEM events.

### WHAT WE'VE DONE BEFORE

- Cornell Into the Streets
- Girl Scouts Workshop
- Boy Scouts Workshop
- Smithsonian Air & Space Robotics Expo
- Cornell Science Olympiad
- RAW Expo
- Programming Workshops
- Cornell Bring Your Child to Work Day





# WORLD OPEN SOURCE

CUAUV's Software team released all of our in-house software stack for anyone, including other teams, to learn from and use on their own AUVs. Parts or all of our software stack is currently used on many vehicles both in and out of the competition.

Check it out at [github.com/cuauv/software](https://github.com/cuauv/software)

