Club Introduction

Oregon State University Robotics Club

groups.engr.oregonstate.edu/osurc

AIR  LAND  SEA
Purpose

• To engage students in robotics and develop their engineering skills to advance the field of robotics.

• Make More Robot!
About the Club

Members

• Members: Over 100 paying members
• Club Dues: $10/year or $15/year + t-shirt
• Requirements: None! All OSU students and any experience level accepted. ME, ECE, and CS are most common majors.

Contact

• Location: Covell Hall 017 at OSU
• Email: osurcofficers@engr.orst.edu
• Mail: 204 Rogers Hall, Corvallis, OR 97330
Projects

• Competition Robotics Teams
  • Aerial Team
  • Mars Rover Team
  • Underwater Team

• Robotics Kits

• Robotics Club University

• Personal Projects
Aerial Team

• Design and build a fully autonomous aerial vehicle

• Competes in SparkFun’s Autonomous Vehicle Challenge
  • Robots must navigate around a course
  • Robots must avoid obstacles and pop balloons
Rover Team

• Design and build a fully autonomous rover vehicle

• Competes in NASA’s Sample Return Robot Challenge for $1.5 million prize
  • Robots must find and pickup objects in a park
  • Robots must be fully autonomous and cannot use GPS or other earth-based sensors

• Previously competed in University Rover Challenge, taking 1st in 2008 and 2010.
Underwater Team

- Design and build a fully autonomous underwater vehicle

- Competes in RoboSub Competition
  - Robots must complete a series of tasks underwater
  - Robots must be fully autonomous and cannot use GPS or other earth-based sensors
Robotics Kits

• Learn how to make your own little robot.
• Gain basic experience in mechanical engineering, electrical engineering, and computer science.
• More advanced kits are available for further learning.
Robotics Club University

• Learn the basic skills and tools needed to become a more effective robotics engineer.

• Planned Workshops
  • SolidWorks CAD
  • PCB Design Software
  • Coding Tools
  • OpenCV and ROS

• Other instruction
  • 3D-Printing
  • Linux installation
Personal Projects

• We will fund your own personal project or idea so you don’t have to.

• We will provide you with the tools and knowledge resources necessary.

• Past projects include:
  • CNC Mill
  • Online-controllable webcam
  • Infinity mirror
Research and Career Opportunities

• Pathway to the OSU Robotics graduate degree program.

• Robotics faculty look to our members for research assistants

• Industry job opportunities
Sponsors!

OSU
Oregon State University
College of Engineering

NVIDIA
Mentor Graphics
DWFritz
Precision Automation

Fastenal

Intel
Wheel EEZ