

# ELECTRONICS

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## Mission Statement

The OCC Electronics Technology Program is designed to provide students with marketable job skills in the fields of industrial automation and robotics, as well as providing a pathway towards earning an advanced degree in a variety of related engineering disciplines.

## Program Description

The Electronics Technology Program offers courses in electrical theory, troubleshooting, safety, and maintenance as well as specialized courses in robotics, industrial automation, communication systems, and computer hardware. Our program offers two pathways focused on robotics and industrial automation.

Orange County and Los Angeles County are home to many advanced manufacturing and robotics companies that actively look to hire technicians and engineers to assist with their operations. This course of study is designed to provide students with marketable job skills.

The robotics pathway focuses on the design, prototyping, and programming of autonomous and manually controlled robots. Students will learn how to design and implement robotic mechanisms and control systems to solve real-world problems. This pathway prepares students for careers working with electronic devices, robotic systems, and autonomous vehicles and systems.

The industrial automation pathway focuses on systems used in manufacturing to control industrial processes. Students will learn how to work safely on industrial control equipment. This pathway prepares students for careers as technicians in advanced manufacturing environments.

Both pathways prepare students for continuing education in Electrical Engineering, Robotics and Systems Engineering, and Computer Science.

## Department Contact Information

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Electronics Technology Department Website (<https://orangeoastcollege.edu/academics/technology/electronics-technology/>)

- Industrial PLC Technician, Certificate of Achievement (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/electronics/industrial-plc-technician-coa/>)
- Robotics Technician, Certificate of Achievement (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/electronics/robotics-technician-certificate-achievement/>)
- Automation Fundamentals, Certificate of Achievement (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/electronics/automation-fundamentals-certificate-achievement/>)
- Embedded Systems Technician, Certificate of Achievement (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/electronics/embedded-systems-technician-certificate-achievement/>)
- Embedded Systems, Associate in Science Degree (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/electronics/embedded-systems-associate-science/>)
- Industrial Electronics Technician, Certificate of Achievement (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/electronics/industrial-electronics-technician-certificate-achievement/>)
- Industrial PLC Technician, Associate in Science Degree (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/electronics/industrial-plc-technician-as/>)