



Engineering & Robotics

Combining fields such as mechanical engineering, electronics, robotics and computers result in this fascinating, applied engineering field. Areas of study include electronics, control systems, manufacturing, computer aided design and robotics. Career opportunities include manufacturing equipment installation and maintenance, automation equipment design and installation, and manufacturing engineer.



◆ Course Sequence

1. Engineering Design
2. Engineering Principles
3. Computer Integrated Manufacturing
4. Robotics

◆ College Credit Opportunities

- Computer Integrated Manufacturing
 - Engineering Principles
- College Credit Plus general education and other dual credit courses are also available.

◆ Industry Credentials

- Autodesk Inventor Certified User
- Autodesk Fusion 360 Certified User
- FAA Part 107 Remote Pilot
- Leadership Excellence - Student
- Allen Bradley/Rockwell Automation Robotics Competition Foundation

Pathway Promise: Students will earn entry-level credentials, have the ability to work in teams and gain career-ready problem solving skills.



**College & Career
Academies**

AKRON PUBLIC SCHOOLS

FIRESTONE

Engineering & Robotics

Entry-Level Careers

- Industrial Electrical Technician
- Manufacturing Technician
- Mechanical CAD Technician
- Mechatronics Technician
- Robotics Technician

Technical Careers

(Advanced certification, Apprenticeship, or Associates Degree)

- Mechanical Technician
- Engineering Technician
- Mechatronics Technician
- Quality Control Technician

Professional Careers

(Bachelor's Degree or higher education)

- Automation Engineer
- Design Engineer
- Electronics Engineer
- Engineering Manager
- Manufacturing Engineer
- Mechatronics Engineering Manager
- Process Engineer
- Robotics Engineer