Engineering & Robotics

Combining fields such as mechanical engineering, electronics, robotics and computers result in this fascinating, applied engineering fi eld. 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. Principles of Manufacturing
3. Computer Integrated Manufacturing
4. Robotics

College Credit Opportunities

- Computer Integrated Manufacturing
- Engineering Design

College Credit Plus general education and other dual credit courses are also available.

Pathway Opportunities

- AASEP Internship

Industry Credentials

- National Incident Management 100, 200, 700, 800

Pathway Promise: Graduates of this pathway are prepared for engineering support roles and/or engineering college.

College & Career Academies
AKRON PUBLIC SCHOOLS
GARFIELD

Engineering & Robotics

Entry-Level Careers

- Apprentice/EDM Operator
- Assembly Technician
- CNC Setup Handler/Technician
- Deburring Technician
- Development Lab Technician
- Drill Press Operator
- EDM Operator
- Installation Technician
- Lathe Operator
- Machinist/Machinist Apprentice
- Metal & Plastic Machine Worker
- Mold Maker Apprentice

Technical Careers

(Advanced certification, Apprenticeship, or Associates Degree)

- Automotive Machinist
- CAD Operator
- CAD Technician
- CNC Programmer
- Electrical Engineering Technician
- Engineering Technician
- Industrial Electrician
- Manufacturing Engineer
- Plant Maintenance Machinist
- Quality Control Technician
- Shop Foreman
- Tooling Sales Representative

Professional Careers

(Bachelor's Degree or higher education)

- Advanced Programmer
- Aerospace Engineer
- Architectural Engineer
- Biomedical Engineer
- Chemical Engineer
- Civil Engineer
- CNC Manufacturing Engineer
- Design Engineer
- Industrial Engineer
- Manufacturing Engineer
- Product Design Engineer
- Prosthetic Limb Designer

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