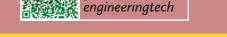
Engineering Technologies& Robotics







Skills recommended to be successful in this career pathway:

SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS CAREER CLUSTER

ESSENTIAL SKILLS



Oral communication



Written communication



Physical strength/mobility



Safety awareness



Visual acuity/depth perception



→ Perceptual speed/clerical & auditory perception



Reasoning skills/mechanical aptitude



Eye/hand/arm coordination/manual dexterity

ACADEMIC SKILLS



APPLIED MATHEMATICS



- Read/understand mathematical symbols
- Use algebraic formulas (Ohm's Law)



DOCUMENTS Use/understand technical

WORKPLACE

- manuals
- Read/use engineering terminology
- Work with troubleshooting guides



GRAPHIC LITERACY

- Read/use blueprints and schematics
- Follow wiring diagrams
- Use ladder logic to solve problems

DID YOU KNOW STUDENTS IN THIS PROGRAM...

- * Regularly use troubleshooting and problemsolving skills
- * Work with others to dissect problems
- Have a working knowledge of mathematical principles
- Use various types of computer programs and design software
- * Have excellent listening skills
- Understand logic and flows of work

- * Work with different types of programming software
- Know engineering symbols used in design solutions
- Follow a systematic process to solve problems
- Have a broad set of skills used for troubleshooting



COURSES



- Engineering Design
- DC Electronic Circuits



- Mechanisms and Drives
- Industrial Robotics



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*Courses subject to change.



Engineering Technologies & Robotics

IS THIS YOU?



Find your work personality type with this free assessment at truity.com:



Holland's Model of Occupational Themes – graphic courtesy of the University of Tennessee.

Realistic | Investigative

Realistic personality types are "doers;" they like doing something, as opposed to talking or thinking about it. They like to solve problems in the real world. They are practical, independent, assertive, competitive, and interested in activities that require motor coordination, skill, and strength. Doers with a secondary personality type of "investigative" have the particular desire to solve problems based on research.

Key strengths that lead to success in this career path

- Attention to detail
- ✓ Analytical thinking
- Dependability
- Integrity
- Adaptability/ flexibility
- ✓ Independence

WORK-BASED LEARNING OPPORTUNITIES

- ▶ Job shadowing
- ► Job placement
- ► Field trips
- ► School-based work projects

COLLEGE & CAREER READY

Career Credentials

- FANUC Handling, Tool Operation, & Programming
- Certified Solid Works Associate
- Certified Solid Works Professional
- Motoman DX100 Basic Programming with Material Handling
- Pre-Apprenticeship Engineering/ Manufacturing
- OSHA 10 General Industry
- CPR/First Aid



For more information,

visit ohiohighered.org

CAREER PATHWAYS

After earning credentials, get more education and experience to



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- CNC programmer
- Automation specialist
- >> Robotic technician
- Programmer
- Electrical engineer
- Mechanical engineer
- Project manager

Entry-level pay range in Ohio

\$18 - 37 per hour



Diamond • Laurel • Live • Scarlet









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