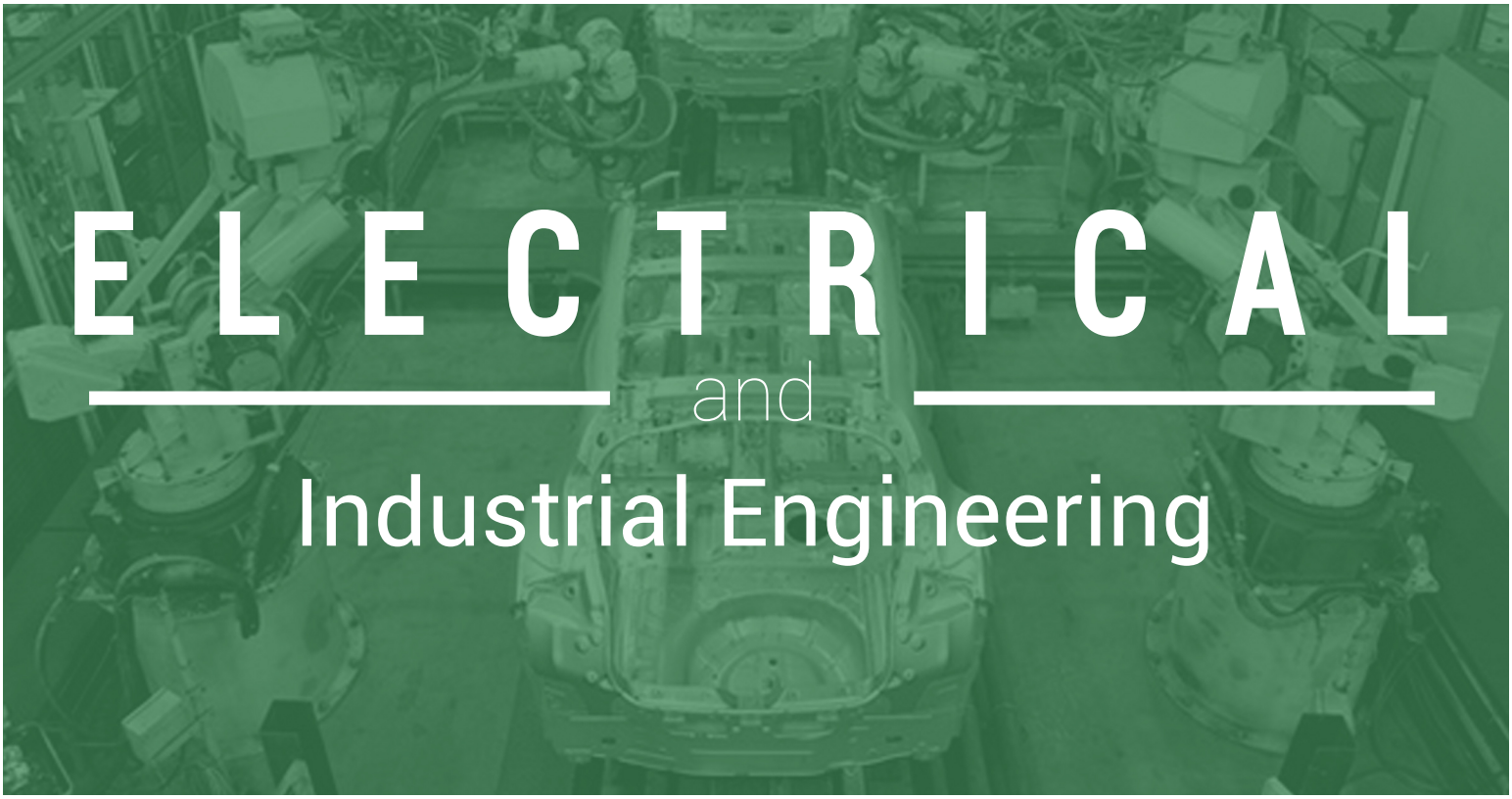


ELECTRICAL
and
Industrial Engineering

A **two-year** program designed to provide students an opportunity to gain knowledge and skills needed in the career fields of electricity, electronics, industrial control and **automation**, **robotics**, renewable energy and electrical engineering.

Application

Students will apply electrical principles to analyze electrical and electronic devices, circuits and applicatiions used in today's technology, as other electrical solutions and applications.

Analysis & Trouble shooting

Students will also develop the skills necessary to interpret electrical daigrams to install, troubleshoot and maintain industrial control systems, including motor controllers, robotics, and instrumentation.

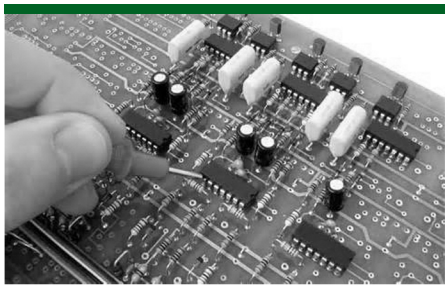
Project-based

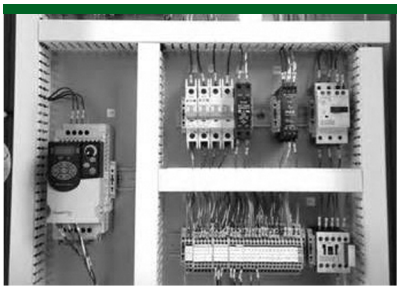
Students will leave the program prepared for a career in an electrical field by completing a series of electrical project-based studies including, automation and process control, robotics, and renewable energy.

THE ELECTRICAL AND INDUSTRIAL ENGINEERING PROGRAM CONSIST OF TWO ONE-YEAR COURSES TAKEN DURING THE STUDENT'S JUNIOR AND SENIOR YEARS. STUDENTS WHO SUCCESSFULLY COMPLETE THIS PROGRAM WILL ACQUIRE THE NECESSARY KNOWLEDGE AND SKILLS NEEDED TO BEGIN A CAREER IN AN ELECTRICAL/ELECTRONICS FIELD. THIS PROGRAM PROVIDES A PATHWAY FOR STUDENTS TO BOTH EMPLOYMENT OPPORTUNITIES AND CONTINUING EDUCATION.

SkillsUSA®

SkillsUSA improves the quality of America's skilled workforce through a structured program of citizenship, leadership, employability, technical and professional skills training. SkillsUSA enhances the lives and careers of students, instructors and industry representatives as they strive to be champions at work.





College credits are earned through dual enrollment and/or through the Career Tech Credit Transfer (CT2) system through the Ohio Office of Higher Education. College Credits are achieved through successful completion of the credential exams and successful completion of the program competencies verified by the instructor of the Career & Technology Program and will be subject to changes from Ohio Office of Higher Education. Students will be eligible for the following CT2 courses:

ODE 175011 - DC and AC Electronic Circuits

ODE 175008 - Mechanisms and Drives

ODE 175004 - Robotics

ODE 175012 - Analog Devices

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