

CIP CODE 15.0303

Mr. Mori

MECHATRONICS

... the use mechanics, electronics, control & systems theory, and computers into a complex, single system.

CERTIFICATIONS

CompTIA A+ Certification
 Student Electronics Technician
 (SET)

3-YEAR BREAKDOWN

Year 1

Electrical Quantities
 Instrumentation
 Soldering
 Ohm's Law
 Series Circuits
 Parallel Circuits
 Series-Parallel Circuits
 Agile Robotics

Year 2

Basic Network Theorem
 Alternating Current
 Oscilloscope/Inductance/Inductive
 Reactance
 RL Circuits in Alternating Current
 Transformers/Capacitance
 RC Circuits
 Troubleshooting
 Rapid Prototyping
 Electronic Communications

Year 3

RLC Circuits
 Resonance
 Programmable Logic Controllers
 Junction Diodes
 Power Supplies
 Transistor Characteristics
 Small Signal Amplifiers
 Operational Amplifiers
 Basic Digital Electronics
 Motors
 Nanotechnology

TEACHERS BIO

Masters degrees in
 Education

Bachelors of Arts Degree in
 Communication/Advertising
 & PR

IT Instructor - Bucks County
 Tech High School

Mechatronics Engineering Instructor
 - EWTC 13+ years



CAREER PATHWAYS

Robotics Engineer
 Electronics Engineer
 Robotics Technology
 Automation Technology

COLLEGE PATHWAYS



INDUSTRY PARTNERS

WindStax Wind Systems
 REM Electronics
 WCCC
 Carclo
 WCCC Shale NET
 Allegheny Educational Systems, Inc.
 California University of PA

A Robotic Engineer's annual median wage is \$97,250.

