

Program Features

- ◆ Attend full- or part-time
- ◆ Small class sizes
- ◆ Focuses on theory and practical, hands-on skills through integral laboratory learning activities
- ◆ Up to two hours of laboratory components and activities offered for every two hours of lectures
- ◆ Internship in relevant industries included as a requirement.
- ◆ Capstone Senior project integrates the diverse elements of the curriculum to develop student competence in theory and technical skills to solve real-world problems
- ◆ Financial aid and scholarships available
- ◆ The campus is home to nine distinct residence halls, each with its unique style, culture, and sense of pride.
- ◆ Free on-campus child care available



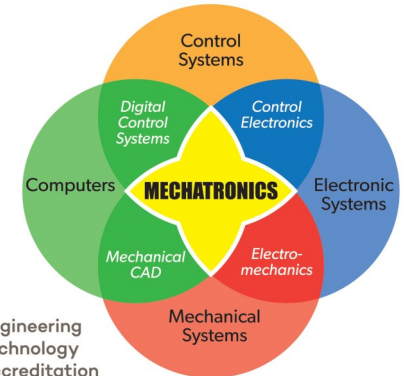
Career Preparation

A BS in Robotics and Mechatronics Engineering Technology qualifies graduates to a wide variety of job positions, including, but not limited to:

- Industry in General,
- Robotics in General,
- Automation, and Control,
- Instrumentation in General,
- Automotive Industry,
- Artificial limbs,
- Food-packing plants,
- and Many Others.



Robotics and Mechatronics Engineering Technology



Engineering
Technology
Accreditation
Commission

School of Engineering, Science,
and Technology

MCM Department, AIH 214

1615 Stanley Street,

New Britain, CT 06050

Phone: 860-832-1830



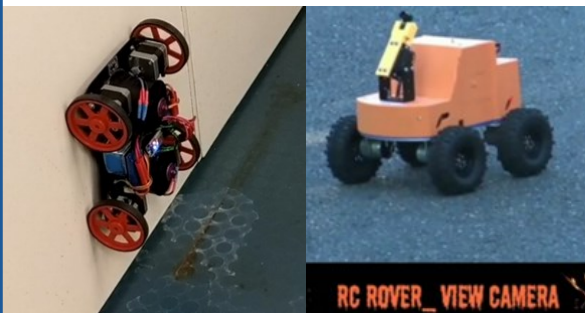
www.ccsu.edu/robotics

Program Overview

Central's BS in Robotics & Mechatronics Engineering Technology provides students with a solid foundation employing computer control systems to make devices smarter and more efficient.

Students learn how to handle vast amounts of data and create systems that make sense of data in real time so that fully automated manufacturing facilities can operate safely and efficiently, or a car can drive completely autonomously. The curriculum incorporates advance/latest technology in Automation, Robotics, Controls, Machine Vision, Instrumentation and Sensors, Computing and Processing etc.

Graduates may be involved in creating planetary exploration rovers, robots from precision manufacturing, or devices that assist the elderly.



Contact Information

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Major Requirements

- ROBO 110 Intro to Robotics and Mechatronics
- ROBO 210 Engineering Mechanics for Automation
- ROBO 220 Parametric Modeling and Simulation
- ROBO 240 Electric Machines
- ROBO 260 Programmable Controllers
- ROBO 280 Embedded Systems Design
- ROBO 310 Data Acquisition & Processing
- ROBO 320 Fluid Power Control
- ROBO 340 Modeling & Simulation in Mechatronics
- ROBO 350 Applied Control Systems I
- ROBO 370 Mechanisms for Automation
- ROBO 380 Mechatronics
- ROBO 390 Robotics, Theory and Applications
- ROBO 460 Applied Control Systems II
- ROBO 480 Industrial Robotics
- ROBO 496 Industrial Internship
- ROBO 497 Capstone Senior Project
- CET 236 Circuit Analysis
- CET 270 Electronic Circuits & Devices for Robotics
- CET 363 Digital Circuits
- MATH 221 Calculus II
- MATH 226 Linear Algebra & Probability for Engineers
- MATH 355 Intro to Differential Equations w/Apps
- MM 216 Manufacturing Processes
- At least two out of four directed electives:
- ROBO 425 Adv. Programmable Logic Controllers
- ROBO 440 Machine Vision and Image Processing
- ROBO 450 Autonomous & Intelligent Mobile Robots
- ROBO 470 Robotics Systems Engineering & Analysis



Industrial Laboratories



Experiential Learning