The 2013 ATMAE National Robotics Championship Team is shown with its winning robot, SAMSON (Semi-autonomous Marauder with Sensor Optimized Navigation).

DEGREES/MINOR

BACHELOR OF SCIENCE (B.S.)

Applied Engineering and Technology Management (AETM)

The Robotics & Control Systems concentration involves the optimization and automation of processes. Students in the Robotics and Control Systems concentration are introduced to the fundamentals of current power and electronic systems used in industry. Laboratory courses may require students to design, program, develop and construct projects independently as well as in small groups. Seniors are encouraged to participate in a cooperative education or internship experience to further their knowledge and technical/managerial skills in an industrial environment.

ASSOCIATE OF TECHNOLOGY (A.T.)

Applied Engineering and Technology (AET)

The Control Systems Technology concentration within this program provides students with the same basic technical coursework as the AETM program, but without courses in management. Typical entry-level professions include: process technicians, application engineers, controls technicians, field technicians, manufacturing technicians and robotic technicians.

MINOR IN CONTROL SYSTEMS TECHNOLOGY

A minor in Control Systems Technology is available to students who complete 18 credits of technical courses related to the study of Robotics and Control Systems.

Top 3 Reasons to Choose Robotics & Control Systems

AT MILLERSVILLE UNIVERSITY

1. Opportunity to learn about systems integration, robotics and process control.
2. Excellent starting salaries (among the highest on campus).
3. According to the O*Net Resource Center, sponsored by the U.S. Department of Labor/Employment and Training, the Robotics Engineer and related occupations are identified as having a “bright outlook” with a score of 100/100.

CLUBS & ACTIVITIES

Association of Technology, Management & Applied Engineering (ATMAE) Student Chapter (aka MU Robotics Team)
The MU Robotics Team has earned more than 30 awards since 2001 in national or international robotics competitions. The team won the 2010 and 2013 ATMAE National Robotics Competitions.

Epsilon Pi Tau (EPT) – Beta Phi Chapter. Epsilon Pi Tau is an international honor society for professions in technology. At Millersville, this includes technology & engineering education, applied engineering & technology management and occupational safety & environmental health majors.

FACILITIES

There are multiple laboratory facilities dedicated to the supporting the Robotics & Control Systems concentration.

- Automation/Robotics
- CADD
- Electronics
- Energy, Power & Transportation
- Fluid Power
- Materials Processing
- Rapid Prototyping

INTERNERSHIP OPPORTUNITIES

Robotics & Control Systems internships combine the student’s academic, technical and management preparation with actual on-the-job experiences in controls integration and process engineering. Internships have a significant management component and students are required to engage in management-related activities such as planning, organizing, directing and supervision at the workplace. The student, the employer and the Department of Applied Engineering, Safety & Technology faculty work cooperatively to assure the internship experience achieves the best possible learning value.

ABOUT OUR GRADUATES

Graduates of the Robotics & Control Systems concentration are prepared to work with multiple types of technological systems in order to design, implement, prove or justify a newly automated process. The graduate may also optimize processes to increase a company’s financial competitiveness. Typical entry-level professions include:

- Process Engineers
- Application Engineers
- Controls Engineers
- Control Technicians
- Field Engineers
- Manufacturing Engineers
- Robotic Technicians
- Project Managers
- Technical Managers
- Supervisors & Team Leaders

ACCREDITATION

The Applied Engineering & Technology Management degrees are accredited by the Association of Technology Management and Applied Engineering (ATMAE).

FOR INFORMATION CONTACT:
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