

Program Review

Executive Summary

Electronics & Computer Engineering Technology –

Majors Reviewed:

- *Electronics & Computer Engineering Technology, B.S.*
- *Electronics & Computer Engineering Technology:
Electronics & Computer Engineering Emphasis, A.A.S.*
- *Electronics & Computer Engineering Technology: Robotics &
Automation Emphasis, A.A.S.*

AY2021-22



**Pennsylvania
College of Technology**

A Penn State Affiliate

The Electronics & Computer Engineering Technology program has a long and successful history within the School of Engineering Technologies at Penn College.

The program includes a bachelor's degree in Electronics & Computer Engineering Technology (BEE), an associate's degree Robotics & Automation degree (RO), as well as a generalized associate degree in Electronics & Computer Engineering Technology (EE).

The graduates of both associate- and bachelor-degree programs have the skills and knowledge that a wide variety of employer's demand. This is evident in the most recent graduate survey (2020-21) where 100% overall placement was reported.

Employers of graduates of these programs are diverse in the types of industries that they serve resulting in a variety of opportunities for graduates. With the already widespread and increasing utilization of the technologies (electronics, computer networking and programming, industrial equipment operation and control) implemented within the electronics curriculum, positions for graduates have included service industries, communications equipment manufacturers and installers, consumer product manufacturing, defense industries, integrated circuit manufacturers, and medical industries. Graduates earn titles ranging from Engineering Technician to Senior Engineer, in roles that require and build on the variety of technical and critical thinking skills encountered in our classrooms and laboratories.

According ongoing feedback and discussions with the department's Advisory Committee, the key to the long-term success of our students and the employers is the electronics foundation and hands-on skills our graduates acquire while here at Penn College coupled with daily exercises in applied problem solving.

In order to support the future success of students, the department will focus on the continued growth of the bachelor- and associate-degree programs. Key areas of growth will be marketing of programs and recruitment of students, communication of equipment and facility's needs, support of future institutional initiatives, recruiting qualified and diversified faculty, organization of department assessment plans, and re-evaluation of program curriculum.

Proactive efforts will be placed on promoting/marketing these programs in tandem with the College's Public Relations & Marketing, Enrollment Management, and Admissions Offices. This includes creating more video content, visits to high school and Career and Technical Centers and increased dual enrollment opportunities.

Evaluation of department equipment and facilities will be conducted by program faculty on an ongoing basis. Results will be shared with the School and College administration. Where applicable, the Electronics department will collaborate with College Relations to boost industry partnerships that support equipment and/or facilities.

The department will work with the School and College Administration to support the initiatives that have been developed in the new strategic plan (2022-26). Future

department plans can aid the key areas of this plan: growth through access, continuous improvement through innovation and excellence through distinction.

Through continued communication with industry, advisory committee members, and alumni along with administrative support from Office of People and Culture, this department would like to recruit new full-time and adjunct faculty with a diverse and highly knowledgeable background.

Organization of department course, program and core assessment will be prioritized to continuously improve of program curriculum. Findings will be used to plan and coordinate future curriculum updates.