

Electronics Engineering Technology (Advanced Diploma)



Meet our students

Our students study a practical and modern curriculum based on professional experience and industry feedback, providing them with industry-ready skills. These students study niche concepts and applications including microcontrollers, wireless communication, programmable controllers, sensors, instrumentation, imaging and video systems, power electronics, control systems, and more. Through classroom education and collaborative capstone projects, our students learn and practice the skills and technologies that matter most in today's world.

Learn more about the classes these students take by visiting [the program webpage](#).

Core competencies and skills

- Developing simple applications using programming languages (C, VHDL, Assembler).
- Diagnosing, troubleshooting, documenting, and monitoring technical problems using appropriate methodologies and tools.
- Developing ladder logic programs using RSlogix.
- Developing data acquisition interfaces using LabView.
- Contributing to the planning, implementation, management, and evaluation of team projects by applying project management principles.
- Preparing and delivering technical presentations.
- Mathematics: Algebra, trigonometry, calculus, functions and relations, discrete math, management science, numerical methods.

Work term availability

- Winter (January – April)
- Summer (May – August)
- Fall (September – December)

Work term capabilities

- Sourcing, purchasing, and installing electronics parts and equipment.
- Simulating and testing analog and digital circuits.
- Designing printed circuits from schematics using CAD.
- Creating, developing, and interfacing microcontroller applications.
- Fabricating electronic circuits (soldering and component placement).
- Installing, testing, and maintaining RF equipment.
- Applying power theory and technology to single or three-phase systems.
- Applying a structured approach to program design, development, testing and debugging.
- Charting and diagraming computer systems both logically and physically.
- Implementing PLC control systems and designing ladder diagrams.
- Evaluating and testing solar, thermal and wind powered installations.

Employer resources

- [Employer webpage](#)
- [Program information](#)
- [Program course schedule](#)

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