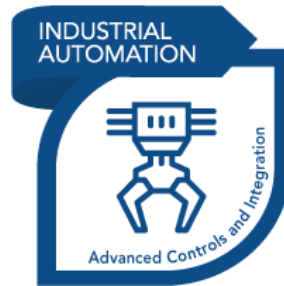


Industrial Automation Module 3



Badge Awarded to

Jesse Grant

Progressing from Automation 2, students explore the Programmable Logic Controller (PLC) system by introducing new hardware and programming tools. Students examine integration of PLC with other PLCs which control large automation lines, interact with industrial robots, and examine complex input and output analog devices used in a controls design.

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At Georgian, we work with industry and community partners to offer relevant, cutting-edge curriculum, quality work placements and co-op experiences with top employers.

Our students graduate with the skills and the mindset to be innovative thinkers and changemakers who can transform their workplaces and communities.

Our vision is to accelerate success through exceptional teaching and learning, innovation and partnerships.

Criteria

Upon successful completion of this module, the student has reliably demonstrated the ability to:

1. create a PLC program with multiple subroutines,
2. discuss how to scale analog input and use them logically in a PLC program,
3. create a PLC program that will control analog output signals,
4. utilize the Jump and MCR commands for PLC program control,
5. explain how to use PLC status and control bits,
6. create a PLC program that utilizes sequencer control,
7. describe how multiple PLC peer-to-peer systems work, and
8. explain how the PLC and robot(s) are integrated.

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