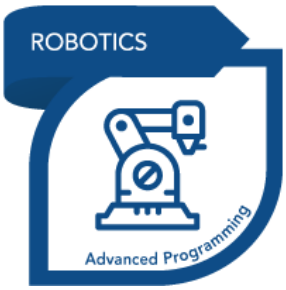
Robotics Module 2



Badge Awarded to

Jesse Grant

In this module, students explore advanced programming and hardware concepts associated with industrial robots. Students program multiple robots to work together, and with other common automation systems to increase the efficiency throughout the industrial automation processes. They create safety zones, subroutines, and macros to further the knowledge of robot safety procedures and program organization.

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Issuer

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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 multiple User Frame systems,
2. create a robot program that utilizes the Transmission Control Protocol (TCP) and User Frame systems,
3. setup axis monitoring for the robot,
4. control the I/O of a running program,
5. create and utilize variables for program control,
6. describe how and when to use different logic commands,
7. create advanced motion commands such as Offsets,
8. shift a program by changing the User Frame,
9. discuss how the Fanuc Dual Check Safety (DCS) safety system works, and
10. setup zone monitoring for the robot.

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