

Robotics Module 1



Badge Awarded to

Jesse Grant

A modern industrial robot is a complex, integrated system with electrical, electronic, mechanical, and software aspects. In this module, students are introduced to basic robotic programming, the mechanical design of an industrial robot, and the different tools that the robot can use for applications such as gripping, mig and spot welding, and painting. Students use simulation software and hands-on robot programming to complete labs. Robot safety procedures and standards are emphasized throughout. Students use simulation software and hands-on programming while focusing on safety procedures.

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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. practice safe robot use,
2. explain how interlock and robot safety devices work,
3. describe how a robot works based on its classification,
4. use different types of robot motions,
5. navigate the robot teach pendant,
6. troubleshoot robotic faults,
7. discuss functions of different End of Arm Tools (EOAT),
8. troubleshoot problems with the EOAT, and
9. create a TCP.

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