WHY GPS?

Join the innovators who are shaping the future of robotics.

Developed with industry experts, this STEM-designated program will equip you to:

- Design and code end-to-end software solutions that power autonomous robots.
- Develop advanced skills in ROS, Gazebo, Modern C++ and other robotic software engineering technologies.
- Gain hands-on experience with the technology stack to build an autonomous robot, including sensing, perception, planning, manipulation, execution and feedback control.

REQUIRED COURSES:

- Modern C++ and Robotics Frameworks
- Design and Architectural Patterns for Robotics
- Robot Sensing and Perception
- Machine Learning
- Robot Manipulation, Planning and Control
- Use Cases for Robotics Systems
- Capstone I
- Capstone II

SAMPLE ELECTIVES (SELECT 2):

- Mathematics and Algorithm Design for Robotics
- Data Intensive Software Systems for Robotics
- Python for Robotics and AI
- Robot-Human Collaboration

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2019-2020 Academic Year