




Brennan Drake

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Education

Bachelor of Science in Mechanical Engineering

Minor in Management

Georgia Southern University — May 2023

Honors College Scholar, GPA: 4.0

Professional Experience

Wheel.me — Robotics Deployment Engineer

May 2023 – Present

- Contributed to \$3M+ in company revenue through sales, deployments, and in-field troubleshooting of industrial AMR solutions throughout the United States and Mexico.
- Developed process for site feasibility studies, partner advisement and deployment support, and tradeshow exhibitions.
- Lived and worked in Guanajuato, Mexico, for 4 months, developing Spanish fluency and establishing a new local project team through training and process development.
- Enhanced Linux proficiency, ROS1/ROS2 troubleshooting (utilizing rviz, topic echos, rqt, and docker log analysis), and firmware/software deployment via AWS/ADO.
- Troubleshoot CAN communication, electrical/mechanical failures, and suboptimal robot operations and mission structure.

Engineering Internships

2021 – 2022

- Gulfstream Aerospace — Additive Manufacturing Lab Co-op: Operated SLA, FDM, and PolyJet 3D printing technologies to produce shop aids and prototypes, improving lab productivity and quality.
 - Gulfstream Aerospace — Systems Safety Co-op: Authored System Safety Assessments, Fault Hazard Assessments, and Fault Tree Analyses, ensuring compliance with FAA and EASA standards.
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Research (View full projects at [My Portfolio](#))

Implementation of Sparse RFID Landmarks into SLAM processes

- Developed an experimental sensor module in pursuit of gathering unique data for landmarking in “lifelong learning” SLAM.
 - Implementation of PN5180 RFID reader measurements into RTAB-Map SLAM for robust localization when fused with lidar and odometry measurements.
 - Utilized ROS2 Foxy and Python for integration, advancing SLAM techniques for robust mapping in complex environments.
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Skills

- Programming: Python, C++, ROS1/2, CAN communication, AWS, and Ansible task development.
 - CAD & Design: SolidWorks (CSWA Certified), CATIA, Rapid Prototyping / 3D Printing
 - Technical Expertise: Circuit prototyping, soldering, machine and hand tools.
 - Soft Skills: Team leadership, project management, technical writing, process optimization.
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Leadership & Volunteer Experience

Project Manager / Team Lead, Senior Design Team (Jan 2023 – May 2023)

- Organized group effort and direction using scrums, brainstorming sessions, and principles of candor.

Service Coordinator, Epsilon Tau Pi (Jan 2020 – Dec 2020)

- Organized community service events, engaging volunteers and fostering team collaboration.

Honors Student Organization (Mar 2020 – Dec 2020)

- Led initiatives to improve campus life and connect with local organizations.