Brennan Drake

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Education

Bachelor of Science in Mechanical Engineering
Minor in Management

Georgia Southern University, Statesboro, GA, May 2023 **GPA: 4.0**

Relevant Experience

Wheel.me – Robotics Deployment Engineer (May 2023 – Present)

- As a Robotics Deployment Engineer, I have aided the company in raising over 2.5 million dollars in value through sales, deployment, and field troubleshooting of industrial AMR solutions.
- Skills involved in this role include advanced linux knowledge, entry level python and c++ programming, ROS1 and 2 programming and troubleshooting, CAN communication, firmware and software deployment through physical means and through cloud solutions such as AWS and ADO.

Gulfstream Aerospace – Additive Manufacturing Lab Co-op – Innovation Engineering and Flight Division (Summer 2022)

- Operated various additive manufacturing technologies such as SLA, FDM, and Polyjet machines in order to assist in the production of shop aids and prototypes for use around the organization. In doing so, sought to make improvements to productivity and quality of the lab

Georgia Southern University - Research into RFID Landmarking in SLAM Applications (Spring 2022-Spring 2023)

- Conducted research culminating in a literature review and experimental hardware in pursuit of integrating PN5180 RFID reader detection events into a SLAM process.
- Codebase in Python and C++ with general operation utilizing Ubuntu Linux Distributions and ROS Foxy.

Gulfstream Aerospace – Systems Safety Co-op – Innovation Engineering and Flight Division (Fall 2021)

- Working as a Systems Safety Engineer, I drafted multiple documents such as System Safety Assessments, Functional Hazard Assessments, Fault Tree Analysis, and others in pursuit of design compliance to FAA and EASA guidelines

Heatcraft / Lennox International - Manufacturing Intern (Spring 2021)

- Managed various projects from formulation to execution ranging from material fixtures, transportation solutions, and quality-centric improvements around the manufacturing plant.

Skills

- CAD Design Proficiency
    - CSWA Certified in Solidworks
    - Proven experience using Solidworks, Inventor, Onshape, Solidedge, Catia, and AutoCAD
- Python Proficiency and Usage in ROS2 Package Development for Autonomous Robot Control Algorithms
- Skilled in designing for additive manufacturing and operation / maintenance of additive manufacturing technologies
- Proficiency using IBM DOORS, Subversion, and Cafta for verification and validation efforts
- Experienced in using machining tools, hand tools, soldering, and PCB design
- Seasoned at managing teams for academic pursuits, volunteer opportunities, and research projects
- Knowledgeable in programming for ROS Noetic and ROS2 Foxy for Turtlebot3 operation

Volunteer Experience

Epsilon Tau Pi Community Service / Honors Student Organization

- Serving as Service Coordinator **(January 2020 – December 2020) (March 2020 – December 2020)**

Activities & Accomplishments

- Project Manager for Senior Design Team — **Spring 2023 – Present**
- Georgia Southern U.S. Quidditch Team — **Fall 2018 – Present**
- Georgia Southern Honors Program — **Fall 2018 – Present**
- Spark Innovation Competition 1st Place Team member — **Fall 2019**
- Study Abroad Opportunity in Craiova Romania — **Summer 2019**