WYATT JORDAN

SOFTWARE ENGINEER

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EMPLOYMENT

Amazon Lab126, *Software Engineer II*, Sunnyvale, CA — Feb. 2021 - Current

- Debugging, patching, testing, and shipping software within OTA update deadlines for consumer robots
- Maintaining ROS C++ behavior tree libraries for multi-process ownership of compute and sensing resources
- Migrating and analyzing customer device metrics, developing automated metrics analysis and reporting
- Developing multithreaded applications in C++ for device self-monitoring and recovery mechanisms
- Writing test plans, providing analysis, and developing automation scripting for QA across time-zones.
- Designing optimal solutions across teams with interdependent software components

Army Research Laboratory, *Robotics Computer Scientist*, Aberdeen, MD — May 2019 - Nov. 2020

- Configured precision time protocol synchronization across networked Linux machines and sensors.
- Improved C++ sensor drivers for compatibility and additional functionality with existing robotics platforms.
- Developed Docker containers for neural networks to process sensor data in real-time with ROS (e.g. this net).
- Labeled data and wrote supporting Python scripts for an object pose detection neural network (publication)

Grove City College, *Robotics Team Lead,* Grove City, PA — May 2018 - Aug. 2019

- Supervised a team of multi-disciplinary students in a fully autonomous robotics platform design cycle.
- Designed a robotics platform on a budget with the necessary compute and sensing capabilities (github)
- Developed, tuned, and tested control loops and sensor data streams on an embedded Linux system.

Army Research Laboratory, *Oak Ridge Research Intern*, Aberdeen, MD — May 2018 - Aug. 2018

- Designed a C++ package for tracking multiple moving objects from LIDAR data in unknown environments.
- Applied the Point Cloud library for 3D data structures and computational methods such as ray tracing.
- Implemented a Kalman filter in ROS C++ for probabilistic object tracking, matching, and prediction.

SKILLS

C++/C, Python, ROS and ROS tools, Linux, Docker, Git, Code documentation and review, Lidar Sensors, Point Cloud Library, Pytorch and Tensorflow, Bench Equipment, Matlab, LabVIEW

EDUCATION

Grove City College — 2015 - 2019

Bachelor of Science Electrical Engineering, Minors in Robotics, Computer Science

Magna Cum Laude, Trustee Fellow Scholarship