

SKILLS

- Programming Languages: C++, Python, Java, TypeScript, HTML & CSS, C#, Rust, SQL
- Frameworks/API: Docker, Distrobox, ROS 2, React, GitHub Actions, FastAPI, BehaviorTree.CPP, Yocto Project with BitBake, GitLab CI/CD
- Operating Systems: Linux (Debian and Red Hat based), Windows
- Electronics: Soldering, Verilog, Microcontroller PCB design, SOM Carrier design

WORK EXPERIENCE

PickNik Robotics

Software Engineer*Technologies: C++, Python, React, GitHub Actions, Docker**09/2024 – Present*

- Increased engineer velocity by 100% as Scrum Master, unblocking engineers through daily standups and optimizing sprint planning processes
- Served as release engineer, reducing release cycle time by 50% through CI/CD automation
- Full stack engineering for MoveIt Pro, identifying and resolving customer-critical bugs as support lead across React frontend, Python networking, and BehaviorTree.CPP behavior nodes
- Delivered specialized customer integration projects for Lockheed Martin, BMW, and GM with MoveIt Pro
- Lead customer support department, triaging and escalating issues, driving time to first response from weeks to below 4 hours to increase customer retention and satisfaction

Opentrons Labworks, Inc.

Software Team Intern*Technologies: Python, C++, Embedded Linux, GitHub**06/2023 – 09/2023*

- Debugged software in an Agile CI/CD environment for the new Opentrons Flex
- Developed Python protocols for internal testing and end user examples
- Performed QA testing using Zephyr Scale and bug reporting on Jira
- Worked with an OpenEmbedded built Linux system on the Toradex Verdin iMX8 M Mini
- Performed code reviews on PRs to the open-source repository
- Interacted with the full stack of hardware, QA, software, product, design, and science (end-user) teams

PROJECT EXPERIENCE

NYU UltraViolet RoboMaster VIP Team

Controls Lead*Technologies: ROS2, C++, Python, Altium, FreeRTOS**12/2021 – 01/2024*

- Led controls development for 5th place finish at international RoboMaster competition, managing 8-person team
- Architected ROS2-based software stack with Python behavior nodes and C++ hardware control nodes for autonomous robots
- Designed custom PCBs in Altium including SOM carrier board with CAN, Ethernet, and UART interfaces
- Built embedded Linux distribution with Yocto for ROS control systems with SocketCAN integration

EDUCATION

New York University, Tandon School of Engineering

Graduated in 05/2024*Bachelor of Science, Electrical and Computer Engineering*

- Minors in Robotics and Game Engineering
- Dean's List 09/2020-05/2024
- Elected Captain of NYU RoboMaster's VIP Team UltraViolet
- Achieved 5th place in the world at RoboMaster competition
- Relevant coursework in Data Structures & Algorithms, Object Oriented Programming, and Machine Learning