Rahul Mehta

STAFF ROBOTICS SOFTWARE ENGINEER

Seattle, WA (206) 555-0133 rahul.mehta@email.com linkedin.com/in/rahulmehta

SUMMARY

Staff Robotics Software Engineer with 11 years in robotics software, the last 4 setting technical direction for manipulation and autonomy teams at a warehouse robotics company. Designs C++ and Python architectures for planning, control and simulation, and reviews designs across 6 teams. Known for clear communication skills with product, hardware and field teams.

SKILLS

C++ • Python • ROS 2 • Motion Planning • Real-Time Systems • Software Architecture • Simulation
CI/CD • Kinematics • Communication Skills

EXPERIENCE

Staff Robotics Software Engineer

04/2022 - Present

Puget Sound Robotics — Seattle, WA

Warehouse picking robot company with 2,000 robot arms in production.

- Direct the software architecture for manipulation on **2,000** robot arms, writing the designs 40 engineers build against.
- Lead a real-time systems rewrite of the C++ control stack that raised picks per hour by 22% on existing hardware.
- Build a simulation and CI/CD gate of 3,000 scenarios that blocks regressions before every release.
- Mentor 8 senior and mid-level engineers, 3 of whom were promoted within 2 years.

Senior Robotics Software Engineer

06/2018 - 03/2022

Cascade Mobile Robotics — Bellevue, WA

Autonomous mobile robot maker for e-commerce fulfillment.

- Owned motion planning for a fleet of 900 AMRs, cutting deadlocks in busy aisles by 75%.
- Planned and led the ROS 2 migration of 120 nodes with no customer downtime.
- Profiled Python and C++ services and cut onboard CPU use by 35%.
- Partnered with hardware leads on 2 new robot platforms from first prototype to launch.

Robotics Software Engineer

07/2015 - 05/2018

Rainier Automation — Redmond, WA

Robotic arm maker for lab and light assembly work.

- Wrote C++ kinematics and trajectory code for 3 six-axis arm models.
- Built Python test tools that ran 500 hardware-in-the-loop checks a night.
- Supported 40 customer installs with field engineers.

EDUCATION

Master of Science

06/2015

University of Washington — Seattle, WA

Mechanical Engineering (Robotics)