

# Aneek Mukherjee

aneek@aneekm.com | (732) 983-1949 | [aneekm.com](http://aneekm.com)

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## WORK EXPERIENCE

### Amazon Robotics

Aug. 2020 – Present

*Software Development Engineer II | Mar, 2022 – Present*

*Seattle, WA*

- Pioneered new embedded firmware capabilities in the Mechatronics organization, up-skilling the engineering team and defining the technical strategy from conception to deployment. Collaborated with cross-functional hardware and product teams to construct and prioritize a roadmap, aligning technical goals with business needs.
- Designed fault-tolerant serverless cloud systems for real-time fleet management of hundreds of robots automating warehouse processes. Achieved 99.9% availability, minimized operational load, and garnered high satisfaction from operations teams.
- Architected and led implementation of large-scale distributed robotic systems processing hundreds of thousands to millions of operations daily across 100+ warehouse facilities, corresponding to over \$10M annual savings.
- Spearheaded technical strategy for a 10-person software team, defining architectural patterns and engineering best practices. Influenced the adoption of those standards across multiple robotic automation projects.
- Drove critical technology decisions for the team since 2022, including AWS database and compute service analysis to balance performance, development complexity, and cost for highly reliable and performance orchestration systems, and designed embedded firmware tooling and development environments from the ground up to accelerate team ramp-up and delivery timelines by 10%.
- Mentored 6 junior engineers and interns to drive technical excellence, foster growth through structured guidance, and help shape clear career trajectories - contributed to team retention and upskilling, including 2 promotions to mid-level roles within 2 years and an internship return offer.

*Software Development Engineer I | Aug, 2020 – Mar, 2022*

- Collaborated with cross-org partners to deliver scalable fleet management features for multiple autonomous guided vehicle solutions in the Mechatronics org, enabling large-scale deployment and \$2M annualized labor savings. Developed fleet monitoring and alarming solutions for easy operational management and support.

### Amazon Robotics

May 2019 – Aug. 2019

*Software Development Engineer Intern*

*Seattle, WA*

- Delivered a web app and distributed back-end system for tracking robotic work in Amazon Fulfillment Centers, leveraging AWS Lambda, Elasticsearch, and Kinesis to record events at 100+ TPS, reconstruct and inspect work sequences, and enable full-text search capabilities; integrated with a robotic workcell as a proof of concept for cross-org stakeholders.

### LinkedIn

May 2018 – Aug. 2018

*Intelligent Automation Intern*

*San Francisco, CA*

- Developed data processing automations at the Intelligent Automation Center of Excellence, saving the finance organization 3 weeks of manual work annually.

## EDUCATION

### Carnegie Mellon University

*Bachelor of Science, Electrical and Computer Engineering*

*Pittsburgh, PA*

- Teaching Assistant for 15:441/641: Computer Networks, Men's Water Polo Club President and Treasurer

### Phillips Exeter Academy

*Exeter, NH*

## SKILLS & INTERESTS

- **Technologies:** C/C++, Rust, CMake, ARM embedded firmware, STM32 Microcontrollers, gcc/clang, Java, AWS & Serverless distributed systems, Python, TypeScript, HTML3/CSS5, React, C#
- **Interests:** Classic cars (particularly Corvettes); self-styled food critic; board games; seeing movies in theatres