# Max Knutsen

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#### work BRINC Drones — Senior Embedded Engineer

2023 - Present

Created Python test environment and tools to assess 200 regression test runs per day Drove CI/CD refactor to deliver an efficient release process with reproducible builds Organized maintenance and distribution of hardware used for testing Coordinated tests for software releases daily leading up to the launch of Lemur 2 Owned developing deployable Python infrastructure for consistency across teams Managed test data with AWS tools such as EC2, DynamoDB, S3, and Lambda

#### Sonos — Control API Software Engineer

2021 - 2023

Added features to the Python script that generates the C++ code for all product APIs Debugged a variety of runtime errors occurring on the embedded Linux speakers Provided documentation that codified team best practices for our on-call rotation Created a GitHub Actions workflow to provide a clang-format label for GitHub reviews

## Amazon — Embedded Firmware Engineer

2019 - 2021

Contributed to firmware application development on the Alexa Loop Collaborated on integration test framework for rapid development on the Halo View Developed and deployed testing strategy for update stress test on Alexa Loop

## Microsoft — Core UEFI Firmware Engineer

2017 - 2019

Facilitated core UEFI support for the release of Windows for the NXP iMX8 Modernized Python build tools for broader use in the open source community Designed and implemented individual driver update scenarios to improve serviceability Provided tools to capture and analyze security status of a host machine during boot Developed functional tests to verify the functionality of UEFI memory protections

## Facebook — BLOB Storage Intern

2016

Cougaar Software — Robotics R&D Intern

2014 - 2016

#### school University of Maryland, Baltimore County

2016

Received a BS in Computer Science with a 3.3 GPA

Founding member, lead programmer, treasurer, and mentor for UMBC's VexU team