Max Knutsen

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work

Sonos — Firmware Engineer

2021 -

Working on the Sonos Player platform team

Amazon — Embedded Firmware Engineer

2019 - 2021

Contributed to firmware application development on the Alexa Loop

Collaborated on integration test framework for rapid development on future wearables 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 an IOT board 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

Microsoft — Hyper-V Software Engineer

2017

Built an internal tool to reorganize a host system's memory layout at runtime Refactored the attack surface of a driver to create a clear layer of input validation

Facebook — BLOB Storage Intern

2016

Created a testing environment to expose recovery issues in the distributed network

Cougaar Software — Robotics R&D Intern

2014 - 2016

Built a robot that maintains a specified water level when a leak is introduced

University of Maryland, Baltimore County school

2016

Received a BS in Computer Science with a 3.3 GPA

Retriever Robotics

2013 - 2016

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