

Max Knutsen

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work **Amazon** — Embedded Firmware Engineer 2019 -
Firmware engineer on upcoming device

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
Cut server start time by 99% by reading from cache, improving emergency response
Created a testing environment to expose recovery issues in the distributed network

Cougaar Software — Robotics R&D Intern 2014 - 2016
Created distributed health monitoring system designed for modular hardware systems
Used Cougaar's framework to design and construct a distributed robotics framework
Built a robot that maintains a specified water level when a leak is introduced

school **University of Maryland, Baltimore County** 2016
Received a BS in Computer Science a 3.3 GPA

Retriever Robotics 2013 - 2016
Founding member, lead programmer, treasurer, and mentor on UMBC's VexU team