

# Christopher V. Smith

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## Skills

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**Technical:** Operating Systems, Embedded Systems, Rapid Prototyping, Information Security, Python, C, Assembly, GDB

**Non-Technical:** Project Planning and Management, French (Conversational), Jazz Bass

## Education

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### Carnegie Mellon University

Pittsburgh, PA

M.S. IN ELECTRICAL & COMPUTER ENGINEERING

Class of 2019

- Current Coursework: Policies of Wireless Systems, Intro to Information Security, API Design and Implementation, Negotiations
- Employment: TA for ECE Design Experience

### Carnegie Mellon University

Pittsburgh, PA

B.S. IN ELECTRICAL & COMPUTER ENGINEERING, MINOR IN SOCIAL & POLITICAL HISTORY

Class of 2018

- GPA: 3.4 / 4.0
- Select Coursework: Operating System Design and Implementation, Embedded Real-Time Systems, Jazz Orchestra
- Extracurriculars: All-University Orchestra President and String Bassist, Delta Tau Delta Fraternity Greek Sing Chair

## Experience

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### Facebook

Menlo Park, CA

KERNEL PRODUCTION ENGINEER, INTERN

Summer 2018

- Designed, wrote, and deployed a Thrift service with Python and SQLAlchemy to better track kernel builds, installations, and tests.
- Added check-ins to the tracking service by existing services throughout the build and test process.
- Created a Python CLI that enables kernel developers to immediately view the results of tests and their logs.

### Cisco Meraki

San Francisco, CA

SOFTWARE ENGINEER, INTERN

Summer 2017

- Led platform bring-up of vMX for Microsoft Azure, an in-demand virtual version of Meraki's security appliance that enables customers to extend Auto VPN and SD-WAN into their cloud deployments.
- Wrote C++, shell scripts, and Makefiles to build new version of the MX firmware, inject custom data into an Azure VM, and authenticate the vMX to the Meraki Dashboard.
- Handled logistics with Azure representatives to package and list the virtual machine in the Azure Marketplace.

### Boeing Defense, Space & Security

Ridley Park, PA

H-47 CHINOOK MISSION SYSTEMS STUDENT ENGINEER

Summer 2016

- Worked alongside veteran software engineers in the tandem rotor, heavy-lift helicopter's avionics group, learning about the fundamentals of safety-critical aerospace engineering.
- Improved simulator fidelity by adding graphics to cockpit displays.
- Created visualization tools for millions of lines of aircraft debugging data from customers.

## Projects

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**Pebbles Kernel (15-410):** Designed and implemented a Unix-style OS complete with round-robin scheduling, zero-fill-on-demand virtual memory, a user-space thread library, and support for user-space device drivers.

**MoBraille (18-500):** Designed, build, and programmed a prototype educational Braille platform that identifies toys and displays their name in Braille using a camera, a Raspberry Pi, and dozens of small solenoids.