

# Michael Georgariou III

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## EDUCATION

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- **California Polytechnic State University**

San Luis Obispo, CA

*Bachelor of Science in Computer Engineering; GPA: 3.53*

*Aug. 2017 – Jun. 2021*

## EXPERIENCE

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- **Hewlett-Packard Enterprise (Aruba Networks)**

Roseville, CA

*Embedded Software Engineering Intern*

*Jun 2020 - Dec 2020*

- Assisted in creation of new switch mode to allow for hub-like functionality by disabling all L2 and L3 protocols and working with other teams
- Wrote feature tests to automate testing of this new mode and ensured no regression occurs

*Software Engineering Intern*

*Jun 2019 - Aug 2019*

- Created an API for multiple daemons to access new column data produced by my team which determined whether or not a port has routing enabled
- Refactored all references in network switch firmware source code to use newly written API

- **Sea Sweepers Underwater Robotics**

Salinas, CA

*Lead Electrical and Software Engineer*

*Jun 2014 - Aug 2017*

- Implemented new systems for vehicle control and data transfer through serial communication
- Designed multiple PCBs to streamline the electrical design of the vehicle
- Engineered reliable communication protocol to ensure high speeds and minimal loss of data using the RS-232 standard

## PROJECTS

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- **AMD GPU Learning Kit**

*Written in Markdown, open-source on GitHub*

*Aug 2020 - Present*

- Co-authored a computing teaching kit that covers introductory topics about AMD GPUs
- Wrote sections on the ROCm toolkit, translating NVidia GPU code to AMD GPU code, and memory and data locality

- **YouTube Recommendation Radicalization**

*Written in Python*

*Nov 2020 - Present*

- Utilized Google's API to scrape data from YouTube's recommendation system
- Used Natural Language Processing to determine how "politically radical" a video is
- Assisted in research on how YouTube's recommendation system can radicalize people

- **Minls and Minget**

*Written in C*

*Jun 2020*

- Created a filesystem reader for Minix, for use outside of the Minix operating system
- Supported functions to list out the contents of a directory and print the contents of a file

- **Portable Weather Station**

*Written in C for the MSP432*

*May 2020*

- Wrote libraries for four different weather sensors for use with the MSP432 microprocessor
- Implemented these libraries to display all the data on an LCD screen

- **The Otter XADC**

*Written in C and SystemVerilog*

*Mar 2020*

- Designed a microprocessor from scratch in SystemVerilog to run assembly and C code on
- Created a library to allow use of the given hardware's XADC chip with our microprocessor in C

## PROGRAMMING SKILLS

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• **Languages:** C, C++, Python, Assembly

**Technologies:** Git, Unix, Vim, Wireshark, Scapy