

# Michael Georgariou III

<http://georgariou.com>

Email : 3@georgariou.com

Mobile : (831) 332-9962

## EDUCATION

---

- **California Polytechnic State University**

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

San Luis Obispo, CA

Aug. 2017 – Jun. 2021

## EXPERIENCE

---

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

*Embedded Software Engineering Intern*

Roseville, CA

Jun 2020 - Dec 2020

- **Hubmode:** 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
- **Test Suite:** Wrote feature tests to automate testing of this new mode and ensure no regression occurs

*Software Engineering Intern*

Jun 2019 - Aug 2019

- **Access Defaults API:** Created an API for multiple daemons to access new column data produced by my teams which determined whether or not a port has routing enabled
- **Refactoring:** Refactored all references in source code to certain column data to use the newly written API

- **Sea Sweepers Underwater Robotics**

*Lead Electrical and Software Engineer*

Salinas, CA

Jun 2014 - Aug 2017

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

## PROJECTS

---

- **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

---

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

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