Michael Georgariou III

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EDUCATION

- **California Polytechnic State University** — San Luis Obispo, CA
  Bachelor of Science in Computer Engineering; GPA: 3.53 — *Aug. 2017 – Jun. 2021*

EXPERIENCE

- **Hewlett-Packard Enterprise (Aruba Networks)** — Roseville, CA
  Embedded Software Engineering Intern — *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** — Salinas, CA
  Lead Electrical and Software Engineer — *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