

MICHAEL GRANBERRY, HARDWARE / SOFTWARE ENGINEER

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 michaelgranberryii •  michaelgranberryii

OBJECTIVE

To obtain an internship in which I can assist on hardware and software engineering projects using my technical, organizational, and leadership skills.

EDUCATION

Bachelor of Science Computer Engineering - GPA: 3.85 California State University Northridge 08/2020 - Present (In - Progress)	Minor Computer Science California State University Northridge 08/2020 - Present (In - Progress)	Associate of Arts General Science Santa Monica College 08/2016 - 06/2020
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Deans List

- Fall 2020, Fall 2021, Spring 2022

Relevant Classes

- Data Structures with C++ / Java, Assembly Language - ARMv7, Software Engineering, VHDL, CMOS Digital Electronics with Lab, Semiconductor Electronics with Lab

WORK EXPERIENCE

Instructional Student Assistant - Digital Electronics 1, Lab 02/2022 - Present

California State University, Northridge

- Prepared lab equipment for upcoming lab experiments.
- Built circuits using logic gates to implement various combinational and sequential functions.
- Assisted students in debugging their digital circuits.

Instructional Student Assistant - Semiconductor Electronics 1, Lab 02/2022 - Present

California State University, Northridge

- Prepared lab equipment for upcoming lab experiments.
- Built circuits using semiconductor devices such as diodes, bipolar junction amplifiers, and MOSFET amplifiers.
- Assisted students in debugging their circuits and held weekly office hours.

PROJECTS

Co-Lead on Drone Modular Smart Pallet Project 06/2021 - Present

ARCS - California State University, Northridge

- Developed python software to acquire range data from an ultrasonic sensor using the I2C bus on a Raspberry Pi.
- Integrated an ultrasonic sensor with ROS (Robot Operating System).
- Created presentations to share progress, issues, and goals with team.

Software Engineer 08/2022 - 12/2022

PR3 Hotel Management System - California State University, Northridge

- Developed a hotel management system using C#, WinForms, and Google Firebase Database.
- Created a UML class diagram, CRC cards, and a system use case diagram to plan software development.
- Used Agile software engineering methodologies and Jira project management system to develop software.

Systems Engineer 06/2022 - 07/2022

CSUN Defense - California State University, Northridge

- Developed object detection software with Open CV and python.

SKILLS

Hardware

- Breadboard, Oscilloscope, Function Generator, DMM, Circuit Components Familiarity

Software

- ROS, OrCAD Capture PSpice, Matlab, Python (2 year), Java (1 year), C / C++ / C# (1 year), ARMv7 (less than one year)