MICHAEL GRANBERRY, HARDWARE / SOFTWARE ENGINEER

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

Relevant Classes:

- Data Structures with C++ / Java
- Assembly Language - ARMv7

- Software Engineering
- VHDL

- CMOS Digital Electronics with Lab
- Semiconductor Electronics with Lab

SKILLS

Hardware	Software	Programming Languages
- Breadboard	- Visual Studio Code	- Python (2 year)
- Oscilloscope, Function Generator, DMM	- OrCAD Capture PSPICE	- Java (1 year)
- Circuit Components Familiarity	- Matlab	- C / C++ / C# (1 year)
		- ARMv7 (less than one year)

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 gate ICs to implement different boolean 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.

LINKS

Portfolio	LinkedIn
github.com/michaelgranberryii	linkedin.com/in/michaelgranberryii