


# MICHAEL GRANBERRY

COMPUTER 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

<b>Bachelor of Science</b> Computer Engineering - GPA: 3.85 California State University Northridge August 2020 - Present	<b>Minor</b> Computer Science California State University Northridge August 2020 - Present	<b>Associate of Arts</b> General Science Santa Monica College August 2016 - June 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** February 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** February 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** June 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** August 2022 - December 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** June 2022 - July 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)