


# 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

- Microprocessor Systems, Design of Digital Computers, CMOS Digital Electronics, Semiconductor Electronics, VHDL, Linear Systems, Software Engineering, Data Structures with C++ / Java

## WORK EXPERIENCE

<b>ECE Instructional Student Assistant - Digital Electronics 1, Lab</b> <i>CSUN ECE Department</i>	February 2022 - Present Northridge, CA
<ul style="list-style-type: none"><li>- Designed and built circuits using logic gates to implement fundamental digital logic functions and simulated them in PSPICE.</li><li>- Assisted students in debugging their digital circuits.</li><li>- Prepared lab equipment for upcoming lab experiments.</li></ul>	

<b>ECE Instructional Student Assistant - Semiconductor Electronics 1, Lab</b> <i>CSUN ECE Department</i>	February 2022 - Present Northridge, CA
<ul style="list-style-type: none"><li>- Designed and built circuits using semiconductor devices such as diodes, BJTs, and MOSFETs and simulated them in PSPICE.</li><li>- Assisted students in debugging their circuits, held weekly office hours, and tutorial sessions.</li><li>- Prepared lab equipment for upcoming lab experiments.</li></ul>	

## PROJECTS & LEADERSHIP

<b>Co-Lead on Drone Modular Smart Pallet Project</b> <i>NASA JPL - CSUN Autonomy Research Center</i>	June 2021 - Present Northridge, CA
<ul style="list-style-type: none"><li>- Developed python software to acquire range data from an ultrasonic sensor using the I2C bus on a Raspberry Pi.</li><li>- Integrated an ultrasonic sensor with ROS (Robot Operating System).</li><li>- Managed range finder sensor team consisting of sonar, radar, GPS, and IMU.</li><li>- Created presentations to share progress, issues, and goals with team.</li></ul>	

<b>Software Engineer</b> <i>PR3 Hotel Management System - CSUN CS Department</i>	August 2022 - December 2022 Northridge, CA
<ul style="list-style-type: none"><li>- Developed a hotel management system using C#, WinForms, and Google Firebase Realtime Database.</li><li>- Created a UML class diagram, CRC cards, and a system use case diagram to plan software development.</li><li>- Used Agile software engineering methodologies, Jira project management system, GIT, and GitHub to develop software.</li></ul>	

<b>Systems Engineer</b> <i>CSUN Defense - CSUN ECE Department</i>	June 2022 - July 2022 Northridge, CA
<ul style="list-style-type: none"><li>- Developed object detection software with Open CV and python to detect faces in an image.</li></ul>	

## 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)