





# MICHAEL GRANBERRY

## COMPUTER ENGINEER

michaelgranberryii   
Los Angeles, CA, US Citizen   
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### EDUCATION

**California State University Northridge - GPA: 3.85**  
*Major: Computer Engineering; Minor: Computer Science*

Expected Graduation: Spring 2023  
Northridge, CA

**Santa Monica College - GPA: 3.22**  
*Associate of Arts: General Science*

Fall 2016 - Spring 2020  
Santa Monica, CA

#### Relevant Classes

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

### WORK EXPERIENCE

**ECE Instructional Student Assistant - Theory of Digital Systems, Lab**  
*CSUN ECE Department*

February 2022 - Present  
Northridge, CA

- Designed and built various combinational and sequential digital circuits and simulated them in PSPICE with students.
- Assisted students in debugging their digital logic circuits.
- Developed lab experiments for the professor and prepared lab equipment for upcoming experiments.

**ECE Instructional Student Assistant - Semiconductor Electronics 1, Lab**  
*CSUN ECE Department*

February 2022 - Present  
Northridge, CA

- Designed and built circuits using diodes, BJTs, and MOSFETs and simulated them in PSPICE with students.
- Held weekly office hours and tutorial sessions on designing BJT and MOSFET amplifiers.
- Assisted students in debugging their analog circuits.
- Prepared lab equipment for upcoming lab experiments.

### PROJECTS & LEADERSHIP

**Co-Lead on Drone Modular Smart Pallet Project**  
*NASA JPL - CSUN Autonomy Research Center*

June 2021 - Present  
Northridge, CA

- Developed software in python 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).
- Managed a team of 4 members whose responsibilities consisted of sonar, radar, GPS, and IMU ROS integration.
- Created presentations to share progress, issues, and goals with team.

**Co-Lead Software Engineer**  
*PR3 Hotel Management System - CSUN CS Department*

August 2022 - December 2022  
Northridge, CA

- Developed a hotel management system using C#, WinForms, and Google Firebase Realtime Database.
- Managed a team of 3 members by delegating tasks and reviewing their code.
- Created a UML class diagrams, CRC cards, and a system use case diagram to plan software development.
- Used Agile software engineering methodologies, Jira project management system, GIT, and GitHub to develop software.

**Systems Engineer**  
*CSUN Defense - CSUN ECE Department*

June 2022 - July 2022  
Northridge, CA

- Developed object detection software with Open CV and python to detect faces in an image.

### HONORS & AWARDS

**California State University, Northridge Deans List**

Fall 2020, Fall 2021, Spring 2022

**Associated Students General Scholarship (CSUN)**

Fall 2021 - Spring 2022

**Honors at Santa Monica College**

Fall 2016 - Spring 2020

### 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)*