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, Linux, LaTeX, GIT/GitHub, OOP (Python, Swift, Java, C++ / C#), C, ARMv7