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

Bachelor of Science
Computer Engineering - GPA: 3.85
California State University Northridge
Fall 2020 - Present

Minor
Computer Science
California State University Northridge
Fall 2020 - Present

Associate of Arts
General Science
Santa Monica College
Fall 2016 - Spring 2020

Deans List
- Fall 2020, Fall 2021, Spring 2022

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   February 2022 - Present
CSUN ECE Department   Northridge, CA
- Designed and built various combinational and sequential digital circuits and simulated them in PSPICE.
- Assisted students in debugging their digital circuits.
- Developed lab experiments for the professor and prepared lab equipment for upcoming experiments.

ECE Instructional Student Assistant - Semiconductor Electronics 1, Lab   February 2022 - Present
CSUN ECE Department   Northridge, CA
- Designed and built circuits using semiconductor devices such as diodes, BJTs, and MOSFETs and simulated them in PSPICE.
- Held weekly office hours and tutorial sessions on designing BJT and MOSFET amplifiers.
- Assisted students in debugging their circuits.
- Prepared lab equipment for upcoming lab experiments.

PROJECTS & LEADERSHIP

Co-Lead on Drone Modular Smart Pallet Project   June 2021 - Present
NASA JPL - CSUN Autonomy Research Center   Northridge, CA
- 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).
- Managed range finder sensor team consisting of sonar, radar, GPS, and IMU.
- Created presentations to share progress, issues, and goals with team.

Co-Lead Software Engineer   August 2022 - December 2022
PR3 Hotel Management System - CSUN CS Department   Northridge, CA
- Developed a hotel management system using C#, WinForms, and Google Firebase Realtime Database.
- Created a UML class diagram, 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   June 2022 - July 2022
CSUN Defense - CSUN ECE Department   Northridge, CA
- Developed object detection software with Open CV and python to detect faces in an image.

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)