
SUMMARY

A dynamic, talented, and vision-driven Electrical Engineering graduate with a background of experience in active stabilization projects with high powered rockets, engineering proposals writing, and product specialist roles. Growth-focused leader with expertise spanning electrical engineering, systems engineering, machine-learning algorithms, technology solutions, project management, business operations optimization, embedded systems development, team leadership, Python, MATLAB, Simulink, and customer service. Exceptional engineer with keen interpersonal, communications, and resource allocation expertise.

PROFESSIONAL EXPERIENCE

APPLE INC. – TEMECULA, CA, NOVEMBER 2021 – PRESENT

PRODUCT SPECIALIST, CREATIVE

- Led and mentored small groups and individuals on individual projects, identifying the needs, advising the development, and formulating the selling and construction of new products.
- Orchestrate strategy development regarding logistics, demonstration of products and peer engagement within the company.
- Discover and review new technology, presenting the technology to both managers and small groups.
- Assist with the development of new and other team members; coordinate with team to continually improve the development process to provide quick turnarounds and high quality.
- Submit weekly report to Manager that outlines all activities and meetings; develop a sales strategy and perform in-store assisted sales to drive sell-through performance.

STARBUCKS COFFEE COMPANY – UPLAND, CA, MAY 2012 – NOVEMBER 2021

SHIFT SUPERVISOR

- Recruited, mentored, and motivated 20 associates in all operational practices and company policies; cultivated a professional culture which prioritized company values, completing customer interactions with integrity and appreciation, and delivering a unique and personalized experience.
- Created implemented process improvements that will enhance cycle time of production and increase productivity.
- Constructed creative solutions to staffing and performance challenges; created and improved current systems and procedures to help shape an efficient working atmosphere.

ELECTRICAL ENGINEERING PROJECTS

NASA + PSYCHE SENIOR CAPSTONE PROJECT, AUGUST 2021 TO PRESENT

PROJECT MANAGER

- Leveraged theories, concepts, techniques, and standard principles for system engineering; discovered and outlined system requirements, devising the specifications of sub-systems.
- Created Arduino-based system to read and store crucial data from current and voltage sensors from photovoltaic arrays; evaluated and visualized compiled data via Python and R.
- Fostered and guided productive weekly meetings with the team, directing group through technical and system-related disciplines, streamlining communication procedure to secure accurate and timely project completion.

ACTIVE STABILIZATION PROJECT, CAL POLY POMONA, JULY 2019 – JULY 2021

GNC ENGINEER/ELECTRICAL ENGINEER

- Constructed and tested a modular, active-stabilization system for high-powered rockets; served as team's technical writer by coordinating trade studies, component rundowns, and reports.
- Tested and verified key hardware including motor controllers, potentiometers, microcontrollers, DC motors, and sensors; applied low pass filters to decrease signal noise.
- Devised and integrated Simulink, MATLAB, and Arduino code for fin deflection, error correction, and motor position control; aided with onboarding, training, and mentorship of new student engineers.

NASA PROPOSAL WRITING AND EVALUATION EXPERIENCE, JANUARY 2020 – MARCH 2020

ELECTRICAL ENGINEER

- Composed a comprehensive New Technology Report for NASA-identified taxonomy; drew up conceptual design of Am-241 micro-Radioisotope Power System (mRPS).
- Tracked and identified metrics and key performance parameters; conducted research historical mRPS specifications, calculating the power output of the system.

NASA MISSION CONCEPT ACADEMY, APRIL 2019 - JUNE 2019

PROJECT MANAGER, GNC ENGINEER

- Assembled and submitted a Project Development Report for self-propelled Saturnian rover; created high-level system specifications.
- Managed project in accordance with standards, procedures, guidelines, schedules, priorities, and systems development methodology.
- Acted as team lead for the planning, coordination, and escalation of the project; orchestrated all concepts through the full cycle, from conception to execution.

EDUCATION AND CREDENTIALS

BACHELOR OF SCIENCE (B.SC.) IN ELECTRICAL ENGINEERING

Arizona State University, Tempe, Arizona

Relevant Coursework: Computer Organization/Assembly Language, Properties of Electronic Material, Digital Circuits, Analog Circuits, Analog Integrated Circuits, Signals and Systems, Digital Signal Processing, Random Signal Analysis, Feedback Systems, Computer-Controlled Systems

CERTIFICATIONS

- **Data Analytics Certification**, ASU Global Tech Program, 2021

TECHNICAL SKILLS

- Classroom/project experience in: MATLAB/Simulink, SPICE, Cadence, C++, Java, Python, R
- Working knowledge of: Microsoft Office Suite, Google Suite, Asana, Tableau, Slack

PERSONAL INTERESTS

- Data-driven applications in space technology, space electronics and robotics, guidance and control methods, embedded systems, systems-based engineering, analog synthesizers, human-computer interaction, hiking, rocketry, radio astronomy, computer vision, and machine-learning applications in power electronics