CHAZTINE P. EMBUCADO

U.S. Citizen

Electrical Engineering Student at
the University of California, San Diego

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EDUCATION

June 2022 (Expected Graduation) **GPA** 3.26

Electrical Engineering, B.S.
University of California, San Diego in La Jolla, CA

Relevant Coursework:
Introduction to Semiconductor Materials and Devices, Components and Circuts Laboratory, Linear Systems Fundamentals, Engineering Probability and Statistics, Product Engineering, MATLAB for Engineering Analysis

WORK EXPERIENCE

September 2020 - present

ITS Service Desk/ResNet Technician
at UC San Diego

- Provides first-tier IT support for UCSD students, faculty, staff over phone and online ticket system
- Troubleshoots user- and network-related issues with TCP/IP, personal and campus-owned devices, and client applications
- Accurately documents issues and determines correct escalation to other teams

AWARDS AND HONORS

December 2019 & May 2020
Most Improved Cadet
Air Force Reserve Officer Training Corps
at San Diego State University

May 2018
Pinnacle Award - (Top 1% of high school seniors in San Joaquin & Calaveras Counties)
The Record, San Joaquin County of Education, and the University of the Pacific

May 2017
Outstanding Achievement in Science
Sandia National Laboratories

June 2015 - 2018
Student of the Year
Merrill F. West High School -
The Space and Engineering Academy

SUMMARY

Third-year undergraduate student with excellent communication skills. Organized and resourceful. Adaptable and flexible in a fast-paced environment. Extreme attention to detail and takes initiative. Eager interest in military/defense and avionics standards and industry.

TEAMS AND PROJECTS

Electronics Sub-Team Member: October 2020 - present
at **SEDS** (Students for the Exploration and Development of Space at UCSD)
on **Colossus SFS** (Static Fire System: test stand with computer-controlled hot-fire sequence for engine testing)

- Documented and finalized Altium schematic of fire suppression system
- Researched and evaluated infrared remote-controlled LED system using Arduino
- Familiarized with the electronics panel, including the power distribution and relay system
- Taking inventory of, organizing, and researching thermocouples, presure transducers, and load cells
- Contributed to research for Hysteresis vs. Proportional-Integral-Derivative control system theory

Coursework Projects: December 2020

- Programmed in Verilog using Xilinx Vivado to simulate outputs of a 7-segment display for a binary to hexadecimal converter using combinational logic and separate modules referenced in a top module
- Built and tuned a light-following arm with photoresistors using Arduino and existing MATLAB GUI PID code to minimize overshoot and maximize turning accuracy

Second-Year Cadet: October 2019 - December 2020
in AFROTC (Air Force Reserve Officer Training Corps)
at SDSU (San Diego State University)

- Consistently secured leadership positions within flight (cadets' assigned team for the semester)
- Learned, applied and tested on tactical and combat knowledge in group leadership exercises/scenarios
- Regularly gave prepared presentations or impromptu briefs with evaluated standards on time and quality
- Attended weekly course on leadership ethics, style, case scenarios, and team dynamics
- Public Affairs Flight Commander:
  - Delegated tasks to a team of seven cadets, appointed team leads for efficient communication
  - Controlled the production of event information to the entire wing (all AFROTC cadets at SDSU) through social media management and collaboration with other teams and organizations
  - Aided the establishment of the "Live with Det075" podcast - virtually interviewed present Active Duty Air Force officers about leadership skills, achievement, and motivation
  - Organized and led professional meetings for team scheduling, accountability, and deadline updates

SKILLS

Software: Altium (beginner), EagleCAD, Arduino, C, HTML, CSS, MATLAB, Python (beginner), Creo Parametric, SolidWorks, OrCAD PSpice, Verilog, GSuite, Git, Docker, MS Office

Hardware: oscilloscope (beginner), multimeter, electric screw driver, dremel tool, orbital sander, power saw, soldering iron (beginner)