ANTHONY WHITE

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PROFESSIONAL SUMMARY

A dynamic and vision-driven Electrical Engineering graduate seeking an entry-level role in systems engineering, navigation and controls, embedded systems development or power electronics.

EDUCATION

Bachelor of Science: ELECTRICAL ENGINEERING
Arizona State University - Tempe, Arizona 05/2022
Digital Circuits, Analog Circuits, Digital Signal Processing, Feedback Systems, Computer-Controlled Systems

WORK HISTORY

PROJECT MANAGER
NASA/Psyche Mission Senior Capstone 08/2021 - 05/2022

- Managed team of four in design and development of wireless energy system via laser for hypothesized deep-space mission
- Researched and communicated concepts, techniques, and standard principles of systems involving lasers, photovoltaic cells and power electronics
- Guided weekly meetings with team, directing group through establishing system requirements and technical specifications
- Created Arduino-based system to read and store crucial data from current and voltage sensors from photovoltaic cells powered by laser light
- Prepared and presented collected data in final mission proposal, demonstrating system's ability to transmit power at 20% efficiency

GNC ENGINEER/ELECTRICAL ENGINEER
Active Stabilization Project 05/2019 - 07/2021

- Joined extracurricular team in design and development of modular drop-in active stabilization system for high-powered rockets as control engineer
- Tested and verified hardware including motor controllers, potentiometers, microcontrollers, DC motors, and inertial measurement unit sensors
- Produced Simulink, MATLAB, and Arduino code for fin deflection, error correction, and motor position control
- Integrated hardware software systems, increasing rocket's maximum altitude by 25% over previous year

PROJECT MANAGER, ELECTRICAL ENGINEER
NASA L'SPACE ACADEMY 04/2019 - 03/2020

- Enrolled in 24 week project-based workforce development training focused on space-mission planning and project proposal methods
- Managed projects in accordance with standards, procedures, guidelines, and NASA Systems Engineering methodology
- Authored Project Development Report (PDR) for self-propelled Saturnian rover; created high-level system specifications for descent and landing system
- Composed New Technology Report for NASA-identified taxonomy; calculated power requirements for Am-241 micro-Radioisotope Power System