Bardia Nasrulai

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EDUCATION:

University of Washington | *Seattle, WA*
B.S. Electrical & Computer Engineering | GPA: **3.6**   *September 2021 – June 2025*
Relevant Coursework: Intro to Power Systems, Computer Architecture I, Intro to Embedded Systems, Design of Digital Circuits and Systems
Awards: 2024 Toimi and Eila Ahola Endowed Scholar for Engineering and Social Justice, Quarterly Dean's List

SUMMARY OF QUALIFICATIONS:

Power Systems: Power System Analysis, Transformer Design, Relay Protection, Technical Documentation
Digital Design & Verification: ModelSim, FPGA Design, RTL Design, Timing Analysis
Programming Languages: C/C++, Java, SystemVerilog, Python, SQL
Embedded Systems: FreeRTOS, ESP32, Peripheral Interfacing, Communication Protocols (I2C, UART)
Software Development: Object-Oriented Programming, REST APIs, Database Design

RELEVANT EXPERIENCE:

Project Manager, Senior Capstone Project Team   *January 2025 - Present*
- Develop adaptive drone algorithm (in partnership with T-Mobile) to receive flight direction on 5G bands and adjust path to destination based on Radio Frequency (RF) signal loss avoidance.
- Capture RF data logs using XCAL & XCAP logging software to identify KPIs.
- Generate digital twin of flight environment using NVIDIA Omniverse configured on a Linux server to simulate drone flight on various wireless communication constraints.

Boeing, Software Engineering Intern | *Everett, WA*   *June 2024 – September 2024*
- Implemented joystick functionality by leveraging a proprietary 3D visualization software's REST API layer, reducing manual interaction time by 30%.
- Wrote technical suggestion to modify API backend to support part ID parameters to visualize specific geometry.
- Designed a Python prototype to demonstrate a dynamic method of querying large datasets.
    - Invention Disclosure 24-1472: *Dynamic Visual Query for Massive Model Visualization*

Boeing, Systems Engineering Intern | *Everett, WA*   *June 2023 – September 2023*
- Drafted requirements for integrating system safety documents to a proprietary aircraft **3D CAD** software.
- Transform proprietary 3D CAD tool into an online streaming format, for uses on resource-constrained devices.

Lavner Education, IT Intern | *Seattle, WA*   June 2022 – August 2022
- Summer camp instructor responsible for constructing lecture slides, in-class assignments, and final projects.
- Administered coursework on Java/Python Fundamentals, Scratch, 3D Printing, and Game Design.

ADDITIONAL EXPERIENCE:

University of Washington, Student Associate | *Seattle, WA*   *August 2022 - Present*
- Support College of Engineering event logistics through marketing campaigns and check-in material preparation.
- Maintain and update sensitive Donor information via **SQL Server** database management system.

UW Solar, President & E-18 Solar Canopy Project Lead | *Seattle, WA*   *October 2022 – Present*
- Produce project proposals for 80+ Solar infrastructure projects on campus.
- Collaborate with UW Transportation & Services to implement solar carports on campus parking lot.