Eyad Nazir

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Education

Texas A&M University College Station, TX

B.S. Computer Engineering *Graduation Date: Dec. 2024*

- GPA: 4.0/4.0
- Key Coursework: Data Structures and Algorithms, Computer Architecture, Computer System and Network Programming, Computer Security Concepts, Digital Integrated Circuit Design, Microcomputer Systems

Experience

Amazon – Project Kuiper Seattle, WA

Software Development Engineer (Embedded) Intern *May 2024 – Aug 2024*

- Designed and implemented an algorithm to determine if a firmware download was necessary for antenna components, reducing bootup times by 80% for RF beam-forming and saving hours across thousands of satellites.
- Integrated and profiled timing metrics for hardware communication paths like I3C and C2C using C++ and FreeRTOS, creating a Grafana dashboard to visualize and analyze timing data, identifying areas for improvement.
- Tested and automated hardware processes in the lab using Python and Linux OS, improving efficiency, overseeing RF beam performance, and increasing testing speed by 40% on phased array antennas (PAAs).

Tesla Austin, TX

System/Software Engineering Intern *June 2023 – Aug 2023*

- Developed and implemented a comprehensive project plan for the Tesla breaker conversion project, resulting in a 20% reduction in retrofitting efforts and improving overall efficiency by 15%.
- Spearheaded the development of a comprehensive project plan, collaborating with cross-functional teams to ensure alignment with technical and business objectives.
- Designed and optimized electrical components for Tesla's automation systems, bolstering performance and dependability.

Siemens USA Grand Prairie, TX

ELDP Software Engineering Intern *May 2023 – Aug 2023*

- Optimized system performance by integrating new devices into an advanced API for Breaker digital twin, enabling real-time monitoring and control, achieving over 30% in performance improvements.
- Developed an intuitive GUI for API integration using C# on the .NET platform, enhancing user engagement.
- Utilized word cloud insights from an NLP model to prioritize product improvements, resulting in a 25% reduction in customer complaints related to circuit breaker functionality.

Projects

Quadcopter Drone Project College Station, TX

Software and Digital Design Engineer *May 2022 – Present*

- Designed the drone's flight control circuit board including micro-controller, sensors, and actuators.
- Developed drone navigation software integrating GPS sensors, mapping, and localization.
- Maintained drone control software focusing on flight navigation and sensor systems.

Integrated Retail POS with Full-Stack Web Platform using PERN Suite College Station, TX

Project Manager & Software Developer *Sep. 2023 – Dec. 2023*

- Crafted and optimized a comprehensive POS application using React, ensuring a seamless user experience.
- Engineered a robust back-end server using Express.js, designing API endpoints and integrating database interactions with PostgreSQL.
- Conducted user studies using agile methodologies, gathering feedback to improve the product.

Skills & Honors

Skills: Data structures, Java, C, C++, C#, .NET, Python, Verilog, VHDL, SQL, Assembly, HTML, R, Cadence, Knime, Tableau, Software Development, Statistics, Probability, Data analytics, Machine Learning, FPGA design verification, Go, Node.js, Ruby, Lua, Swift, LTspice, MultiSim, Arduino, Docker, React, Angular, Express.js

Awards and Achievements: Aggie Engineering Grant, Aggie Assurance Supplement Grant, Federal SEOG Grant, Perfect Score on Math A-level IGCSE course from Cambridge, Dean's Honor List

Languages: English & Arabic (Fluent), French (Basic)