

Shayan Ali

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EDUCATION

New York University (Tandon School Of Engineering)

New York, NY

Bachelor of Science in Electrical Engineering and Computer Engineering (ABET)

MAY, 2024

- Honors: Dean's: September 2021-Spring 2024
- GPA: 3.449/4.0

PROFESSIONAL EXPERIENCE

Constellation Energy – Nuclear

Quad Cities, IL

System Engineer Intern – Strategic Electrical

May 2024 – Present

- Identified a trending failure of the batteries, explaining the benefits of switching to new systems, and performed risk analysis on 4KV buses among systems to enhance overall safety and reliability.
- Led a \$3.1 million **project** to upgrade 250VDC battery chargers from analog to digital, significantly improving system reliability and performance.
- Authored detailed specifications for new 250V safety-related battery chargers, ensuring adherence to technical and (1E) safety standards, Utilized Vendor Technical Information Packages to guide the creation of comprehensive technical documentation
- Implemented a real-time monitoring system for the new digital chargers, enhancing predictive maintenance capabilities and reducing downtime by 20%.
- Streamlined the procurement process by developing standardized documentation and procedures, reducing lead times by 15%.
- Presented project outcomes and technical details to senior management, showcasing the benefits and ROI of the digital upgrade project.
- Utilized MS Excel to analyze technical data and create comprehensive reports, improving data-driven decision-making processes

TNSS Global - 5G Network Auditing

Hybrid

Software Engineer Intern

May 2022 – Aug 2022

- Collaborated with 5 team members to create **Python** scripts to automate network tasks to improve 5G signal: improved efficiency by 20% and accuracy of RSRP range, Sin R, and RSRQ by 10%
- Analyzed 5G networking infrastructure logs to advocate for further network coverage improvements and alternatives.
- Resolved 5+ customer issues on behalf of clientele like Verizon by creating customized scripts; 100% resolution rate

Brooklyn College - Robotics/ Mechatronics

New York, NY

Captain/ Lead Engineer

MAY 2020 – MAY 2022

- Reached **Quarterfinals** competing with 40 schools in First Robotics Competition to commission autonomous robotic system
- Oversaw team of 6 student engineers in delegating roles to plan and pitch final design to 6 committee representatives
- Constructed robotic systems to operate **autonomously** utilizing **Java**; increased robotic system maneuverability 50% and autonomous navigation 100% via sonar, touch, and light sensor

LEADERSHIP & ACTIVITIES

Class A Power Amplifier Design [Project]

New York, NY

Electrical Engineer

Sept. 2023– Dec.2023

- Designed and simulated a single-stage BJT class-A power amplifier, optimizing resistor values and transistor configurations
- Created detailed system wiring diagrams utilizing circuit lab
- Utilized PSpice for validation, ensuring alignment with performance specifications
- Conducted hands-on lab testing with a 64-ohm speaker, verifying the amplifier's efficiency and gain

Philanthropy Project – Constellation [Project]

Quad Cities, IL

Project Lead

May 2024 – Present

- Organized and led a fundraising initiative for the Big Brother Big Sister foundation, raising \$21,000
- Developed promotional materials and communication strategies to increase awareness and engagement.

Project Basta [Fellowship]

New York, NY

Fellow

Sept. 2023– Present

- Selected from thousand applicants for fellowship, supporting first-generation college students with entry-level positions

SKILLS: Proficient in Excel, Java, C++, Python, Git-Hub, AutoCAD, Fusion360, Autodesk, and 3D printing. Circuit Lab, Verilog,