

Mario Zakharia

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EDUCATION

New Jersey Institute of Technology

Newark College of Engineering

Major in Electrical and Computer Engineering Technology

Rowan College at Burlington County

Associate Degree in Engineering

Newark, NJ

Dec 2025

Mount Laurel, NJ

Graduated: May 2022

WORK EXPERIENCE

Holiday Parks. inc

Controls Engineering Intern

New Carlisle, IN

May 2025 - Aug 2025

- **Amazon Data Center Integration:** Installed and integrated BAS and control systems at multiple Amazon data centers, supporting live commissioning and ensuring seamless system startup.
- **Electrical Drawing Revisions:** Revised and redlined 30+ electrical schematics and panel layouts on-site, improving accuracy and speeding up coordination between design and field teams.
- **Cross Team Project Execution:** Collaborated daily with electricians, project managers, and mechanical engineers to align on milestones and keep installations moving forward efficiently.
- **Controls Hardware Setup:** Installed and tested PLCs, VFDs, and sensors, utilizing ladder logic for PLC programming to maintain reliable performance.

Fives Intralogistics Corp. (2 Rotations)

Electrical Engineering Intern

Louisville, KY

May 2023 - Aug 2023 & May 2024 - Aug 2024

- **Operational Efficiency Tools:** Developed custom data analysis tools that exposed workflow inefficiencies across Amazon logistics systems, contributing to a \$1M reduction in operational costs.
- **Site Commissioning & Panel Testing:** Executed 20+ electrical panel checkouts and supported system commissioning at over 10 locations, helping bring automation systems online with minimal rework.
- **Control Design Streamlining:** Improved control panel layout clarity and reduced documentation time by 15% through iterative AutoCAD Electrical revisions based on field feedback.
- **PLC & VFD Integration:** Programmed and tuned PLC based systems using Studio 5000 and VFDs, resulting in faster system response times and more consistent automation performance.

ENGINEERING PROJECTS

Dual Authentication Safe

May 2022

- **Secure Access System:** Designed advanced fingerprint and facial recognition features for fast, under-2-second authentication, enhancing user experience.
- **Embedded Systems & Programming:** Implemented the system using **Arduino**, **OpenCV (for facial recognition)**, and **C++**, reducing access time by 30% while ensuring robust authentication.
- **Data Processing & Integration:** Engineered hardware-software communication for **real-time biometric validation**, optimizing efficiency and ensuring seamless system operation.

LEADERSHIP & VOLUNTEERING

Boy Scout

Member and Chief

Beirut, Lebanon

Jan 2009 - Jan 2022

- **Leadership & Team Management:** Progressed through multiple leadership roles over 10+ years, culminating in **Chief**, where I led and mentored a team of **25+ members** in community service and skill development initiatives.
- **Strategic Execution & Team Collaboration:** Led complex projects with critical thinking, flexibility, and effective decision-making to achieve strategic objectives.
- **Community Engagement:** Led various outreach programs, fostering collaboration and enhancing public service efforts.

TECHNICAL SKILLS / QUALIFICATIONS

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

Programming: Python, C++, C, JavaScript, SQL, MATLAB, Ladder Logic

Embedded Systems: Arduino, Raspberry Pi

Industrial Tools: Studio 5000, PLCs, VFDs, AutoCAD Electrical, Motor Control

Data & Databases: MySQL, PostgreSQL, Data Modeling

Certifications & Memberships: IEEE Member, NSLS Honors, Dean's List

Hobbies: Marathoner (Jersey City Marathon Finisher), soccer, chess