Mohamad Muhammad

Clifton, NJ

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Education

New Jersey Institute of Technology (NJIT) | Newark, NJ

Bachelor of Mechatronic Engineering   September 2024-Present

Work Experience

Passaic Valley Water Commission | Clifton, NJ

Mechanical Engineering Intern   May 2026-August 2026

- Contributed to the design, maintenance, and troubleshooting of mechanical systems, including pumps, valves, and motor control centers.
- Collaborated with the engineering team to analyze system performance and recommend modifications to optimize energy usage and reduce operational costs.
- Monitored critical operational sensor output using SCADA systems to track piping networks, fluid dynamics, and pressure systems, identifying potential mechanical failures before they occurred.
- Supported equipment upgrades and retrofits, improving the overall efficiency and lifespan of mechanical assets.

Neogenomics | Ramsey, NJ

Medical Laboratory Assistant   January 2023-Present

- Prepare experiments, process tissue specimens, and maintain lab equipment.
- Implement improved lab protocols and procedures.

Clubs & Projects

FPV Drone   September 2025-December 2025

Project

- Designed, assembled, and soldered a fully functional 7-inch FPV drone from individually sourced parts, including the frame, motors, flight controller, and camera.
- Configured and optimized flight software (Betaflight) for stability, performance, and smooth flight dynamics.
- Integrated telemetry logging and performed PID tuning to address flight instability and optimize control.

Robotics Club | NJIT

Member   January 2025-Present

- Collaborate with peers to design, build, and program robots using tools like Fusion 360, C++, and 3D printing

American Society of Mechanical Engineers (ASME) | NJIT

Member   January 2025-Present

- Participate in workshops, networking events, and technical sessions to support professional development in mechanical engineering.

Technical Skills

Languages and Technologies: Solidworks, AutoCAD, Python, C++, Visual Studio Code, PyTorch, Matlab, Microsoft Office (Word, Excel)

Spoken languages: English (Native), Arabic (Native)

Interests: Weightlifting, Robotics, Clash Royale, Muay Thai, Wrestling