

KHALED MOUSA

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EDUCATION

SUNY at Farmingdale State College *Farmingdale, NY*

Expected Graduation: Spring 2028 GPA: 3.69

Bachelor of Science in Computer Engineering & Bachelor of Science in Electrical Engineering

- **Coursework:** Circuit Analysis, Digital Logic Design, Computer Architecture, Data Structures, Object Oriented Programming, Computer Organization and Assembly Language, UNIX/Linux Operating Systems.

SKILLS

- **Programming Languages:** C++, Python, JavaScript, HTML, CSS
- **Engineering:** Circuit Analysis, Digital Systems, System Testing, Hardware Troubleshooting, Signal Analysis
- **Software & Tools:** Object-Oriented Programming, Git/GitHub, Linux, Node.js, Network Automation & Scripting, MATLAB

Citizenship: U.S. Citizen

EXPERIENCE

Boingo Wireless, Wireless Operations Intern

Summer 2024

- Supported engineering team with system testing, validation, and troubleshooting
- Developed Python automation tool improving operational efficiency
- Collaborated with engineers to deploy and test Linux infrastructure systems
- Assisted engineers with deployment and system validation

ResetWavee Engineering Automation Project, Tech Stack: Linux, Python

Summer 2024

- Developed engineering automation system to remotely control and manage infrastructure devices
- Reduced engineering task execution time from 2 hours to 10 seconds
- Debugged system level issues and improved reliability
- Tested and validated system functionality in operational environment

The Cove Dev, LLC - Full-Stack Web Development — HTML, CSS, JavaScript

Aug 2025 - Present

- Developed responsive web applications with dynamic user interfaces for clients.
- Implemented client-side logic and debugging to improve performance and usability
- Applied software engineering best practices including modular design and version control using Git
- Generated **\$6K** Profit for the year of **2025** for my company side project, The Cove Dev.

Digital Logic Design Projects — C++ (Logisim)

- Designed and simulated digital systems including logic circuits and registers
- Performed system testing, debugging, and functional validation
- Applied engineering problem solving to improve system performance

Empire Camera Installations / Independent Contractor, Field Technician

2023 - 2025 Summer

- Installed and configured engineering systems and hardware
- Diagnosed and resolved hardware and connectivity issues
- Performed troubleshooting, system validation, and reliability testing

Meta, EMG Research Assistant (Short-Term Research Experience)

Summer 2023

- Assisted in research involving **electromyography (EMG) wearable sensing system**
- Helped evaluate **signal acquisition** and **hardware interaction** for wearable devices
- Observed and supported testing procedures related to **gesture recognition and muscle signal detection**
- Gained exposure to **biomedical signal acquisition and wearable hardware validation workflows**

LEADERSHIP EXPERIENCE

Boingo Hack-a-Thon 2024, Team Lead

August 6-8th 2024

- Led development of a software integration project using Google Cloud and Vertex AI
- Collaborated with cross-functional teams to design and implement scalable software solutions
- Presented technical architecture and implementation results to executive leadership