

MEKIN MOHAMMED AMIN

Electrical and Computer Engineering Student

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PROFESSIONAL SUMMARY

Electrical and Computer Engineering student with a strong foundation in cybersecurity and networking as a Cisco CCNA-certified trainee. Passionate about artificial intelligence, machine learning, and mathematical modeling. Experienced in computational simulation, robotics modeling, and control system analysis using Python and MATLAB. Skilled in applying mathematical, algorithmic, and security-focused approaches to analyze complex engineering systems. Seeking to further develop research and analytical skills in computational science, intelligent systems, and network security through graduate study.

EDUCATION

Bachelor of Science in Electrical and Computer Engineering

Addis Ababa Science and Technology University

Graduation: June 2026

CGPA: 3.22 / 4.00

Relevant Coursework: Control Systems, Data Structure and Algorithm, Embedded Systems, Machine Learning and Robotics and Computer Vision.

TECHNICAL SKILLS

- **Programming:** Python, MATLAB, C and C++.
- **Engineering & Simulation Tools:** MATLAB / Simulink, Proteus, Cisco packet tracer and Arduino.
- **Development Tools:** Git /GitHub and Linux.

PROJECTS

Modeling and Simulation of MAIRA NUERA Robot

- Tools: MATLAB / Simulink, Python
- Simulated robot kinematics, dynamics, and control system performance.

GitHub: <https://github.com/mekin10/maira-nuera-robot-simulation>

Handwritten Digit Recognition using CNN

- Tools: Python, TensorFlow/PyTorch
- Implemented a CNN-based computer vision model for handwritten digit classification.

GitHub: <https://github.com/mekin10/Computer-Vision-Project>

PWM-Based DC Motor Speed Control with LCD Monitoring

- Tools: C, PIC24 Microcontroller, PWM, LCD
- Controlled motor speed using PWM and displayed power/RPM on an LCD.

GitHub: <https://github.com/mekin10/PWM-DC-Motor-Control>

LM35 Temperature Monitoring System

- Tools: C, PIC Microcontroller, Proteus
- Designed temperature monitoring system with LED indicators.

GitHub: <https://github.com/mekin10/LM35-Temp-Monitor>

Afalgugn Platform (Hackathon Project) – Hackathon hosted by Vercel

- Developed a web platform during the “Prompt to Production” hackathon.

Project Link: <https://v0-afalgugn-family-app.vercel.app/>

Art Auction Platform (Internship Project) – Kuraz Technology Company

- Contributed to development of a digital art auction web platform.

Project Link: <https://github.com/mekin10/Art-Auction-Platform>

EXPERIENCES

Intern — Kuraz Technology Company

- Participated in technical development activities and engineering projects.
- Assisted in practical problem solving and system analysis.
- Gained hands-on experience with real-world technology systems.

Participant — “Prompt to Production” Hackathon hosted by Vercel

- Developed a website called **Afalgugn** during the hackathon.
- Focused on rapid prototyping and building functional digital solutions.

CERTIFICATIONS

- Internship Certificate — Kuraz Technology Company
Link: [Certificate](#)
- Project Management Course — Coursera (In Progress)

LANGUAGES

- **English:** Professional working proficiency
- **Amharic:** Native proficiency
- **Tigrigna:** Fluent
- **Afar Af:** Fluent