

# Altaher Abdussalam Altaher Saleh

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Tripoli, Libya

## Objective

Aspiring Computer Engineer focused on Artificial Intelligence, Deep Learning, and Computer Vision. Passionate about developing innovative solutions through research and gaining valuable experience in cutting-edge technologies. Eager to contribute to the technology industry by solving real-world challenges.

## Education

### **B.Sc. in Computer Engineering**

University of Tripoli, Faculty of Engineering

Graduated: 2025

Ranked among the top 3 students in several courses, including:

- EC313 — Electronic Circuits (1st)
- EC383 — Digital Systems
- EC483 — Microprocessor
- EC312 — Electronic Circuits

## Languages

- Arabic (Native)
- English (Fluent)
- Spanish (Beginner, 1%)

## Work Experience

### **Oloom Alahia (Sole Agent for Bioscientia Laboratories, Germany)**

April 2021 – July 2021

Worked in a reception role, helping patients with their test results and answering questions. Gained hands-on experience in a clinical environment, improving communication and organizational skills.

## Volunteering

Volunteered in various student-led campaigns at university, providing lectures and assistance to fellow students in courses previously completed.

## Academic Projects

### Deep Learning (EE569 – Special Topics in Control Systems)

**Supervised by:** Dr. Nuri Benbarka

- **MLP Classifier for Handwritten Digits:** Implemented a Multi-Layer Perceptron neural network using NumPy.
- **NLP Chatbot for Ahkam Sharia:** Developed a Retrieval-Augmented Generation chatbot using OpenAI APIs.
- **RL Car Racing:** Trained a Deep Q Network (DQN) agent to autonomously complete laps.
- **Instance Segmentation and Gender Classification:** Built a computer vision model using Detectron2.

### Pattern Recognition (EC557)

**Supervised by:** Dr. Nabil Drawil

- **Statistical Model Estimation:** Applied parametric and non-parametric methods, including MED, GED, MAP, NN, and kNN.
- **2D Classification Models:** Used Maximum Likelihood Estimation to develop models.

### Digital Systems 2 (EC383)

**Supervised by:** Yusra Maatug

- **Booth Multiplier Project:** Designed and implemented a Booth multiplier using VHDL, completing all requirements successfully.
- Gained experience in hardware description languages (VHDL) and digital design principles.

### Graduation Project (B.Sc. in Computer Engineering)

**Title:** A Portable Brain-Computer Interface with NPU-Accelerated On-Device Machine Learning for Real-Time EEG Signal Classification

- Designed a real-time Brain-Computer Interface using a microcontroller with NPU capabilities.
- Explored machine learning and deep learning models for EEG signal classification, eliminating the need for external servers.

## Skills

- **Programming Languages:** academic knowledge in Python, MATLAB, C, OOP.
- **Tools & Libraries:** TensorFlow, Keras, PyTorch, OpenCV, scikit-learn, VHDL.
- **Other:** Data Acquisition (ADS1299), Embedded Systems, Signal Processing, Neural Networks, Machine Learning.

## **Awards & Achievements**

- Top 3 student in multiple courses at the University of Tripoli.
- Recognized for academic excellence in Deep Learning, Pattern Recognition, and Digital Systems courses.

## **References**

Available upon request.