

MOHAMED N. GAAFER

+39 3514277009 mohamed_gaafar@ieee.org linkedin.com/in/mn-gaafar github.com/mo-gaafar Upwork Top Rated+

Education

Scuola Superiore Sant'Anna and University of Pisa

Master of Science in Bionics Engineering, Neural Engineering Track

- Ranked **2nd** on all international applicants in admission test and interview

In Progress

Pisa, Italy

Cairo University Faculty of Engineering

Bachelor of Science in Biomedical and Systems Engineering

- Ranked in the **Top 4** of my class.

GPA 3.5/4.0 - IELTS 8.5 (C2)

Giza, Egypt

Work Experience

EXODIA AI Technologies

Co-Founder & CTO

July 2025 – Present

Turin, Italy

- Managing a team of **10+** **engineers** delivering multiple AI-driven solutions, including an **enterprise RAG system** for a subsidized finance consultancy that cut grant researchers' office work by **70%**.
- Delivered AI training services to one of the largest culinary institutes in Italy, with **100+** **employees**.

RemodelBoom

AI Automation Consultant

Dec 2025 – Present

Remote

- Assisted founders in learning **n8n** and building vibe-coded internal tools with **Lovable**, including a direct mail management tool supporting **30K+** **mails/month** with address verification and data enrichment.

Teammate AI

Voice AI Consultant

July 2025 – Nov 2025

Remote

- Stepped in during a product emergency to fix the team's voice agent setup and trained them on **VAPI** and **Retell** scaling constraints; platform has since handled **50K+** **calls**.

Sports Nutrition Association

AI Integration Consultant

June 2025 – Nov 2025

Remote

- Trained the CEO on building **n8n** automations and built an email auditing system with **sentiment analysis** to flag unanswered support requests and monitor team quality, processing **6,000+** **threads**.

Duara Education – The School for a New Generation

AI Engineer

June 2025 – Oct 2025

Remote, Kenya

- Assisted in AI-accelerated development of a full **School Management Platform** for a smart school in Kenya, covering enrollments, grades, finances, and inventory.

Educate!

Artificial Intelligence Consultant

March 2025 – July 2025

Remote, Kenya

- Built **multimodal AI WhatsApp agents** to support entrepreneurship trainers and volunteers, retrieving guidance from a large database of program policies and guidelines.

Eventec (Formerly Illusionaire LLC)

Founding Software Engineer

March 2023 – April 2024

Cairo, Egypt

- Built a multitenant event management SaaS platform from the ground up, scaling from solo to a team of **6+** **engineers and designers**; now supports **100K+** **event-goers**.

Projects

TMS Motor Mapping Visualization (Click Here) | Python, VTK, Open Source

- Developed an interactive TMS motor mapping visualization feature for InVesalius during Google Summer of Code, enabling advanced brain surface heatmaps, customizable colormaps, and real-time Motor Evoked Potential (MEP) data exploration.

Brain Computer Interface and VR based post-stroke rehabilitation (Graduation Project) | Python, C#, Unity, LSL

- Interfaced EEG with **signal processing** and **ML** pipeline based on **MNE** library and using **LSL** for **realtime** neurofeedback.
- Focused on embodiment and engagement game elements in **virtual reality** to improve **therapeutic** outcomes; scoping review was an entry to the **IEEE Student Paper Contest** (first Egypt edition).

Blind Assistance Image Recognition System (Click Here) | Python, ViT-GPT2, TTS

- Developed a system using Vision Transformer (ViT) and GPT-2 for contextual scene analysis and description.
- Implemented advanced Text-to-Speech (TTS) technology to convert visual data into spoken words, enhancing user autonomy.

Technical Skills

Languages: C++ , Python, MATLAB, Javascript, C# ,Embedded C , SQL, MongoDB

Developer Tools: VS Code, AWS, Google Colab, GCP, Docker, Zapier, N8N Automations

Technologies/Frameworks: Unity 3D, Pydantic AI Agentic Framework, FastAPI, Django, PyTorch, Keras, TensorFlow

Extracurriculars

Shell Eco Marathon — CU Eco-Racing Team

Head of Web Development

Cairo University

- Lead** a team of **6 members**, built **cu-eco.org** website and an inventory management system for the team.