

Mohamedalfateh T.M. Saeed, PhD Candidate

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EDUCATION

Ph.D., Electrical & Electronics Engineering (GPA: 3.93/4.00) **Sep 2024 – Present**

- Ondokuz Mayıs University | Samsun, Turkey
- Fully funded by Turkish Government Scholarship.

M.Sc., Electrical & Electronics Engineering (GPA: 3.38/4.00) **Sep 2019 – Jun 2022**

- Istanbul University-Cerrahpaşa | Istanbul, Turkey
- Fully funded by Turkish Government Scholarship.

B.Sc., Electronics Engineering (Control) (Top of class, GPA: 83.67%) **Sep 2012 – Oct 2017**

- Al Neelain University | Khartoum, Sudan
- First hardware-based PLC/SCADA graduation project; awarded the best project award.
- Master's degree Excellence Scholarship (Embedded Systems Engineering).

WORK EXPERIENCE

Research Scholar | Osmaniye, Türkiye **Apr 2025 – Present**

TÜBİTAK & Osmaniye Korkut Ata University

- Investigated device heterogeneity in RSSI-based Indoor Positioning using the TUJI1 dataset; developed a CNN-LSTM framework reducing 3D positioning errors to 2.20 m and improving cross-device robustness by 0.17 m (*Published in IEEE Access*).
- Developed a physics-aware CSI localization framework that recovers ADC-saturated packets instead of discarding them, reaching 0.60 m error from a single access point and beating the CSILoc benchmark on all six nodes by 17.9–56.8% under temporally disjoint evaluation (*Accepted in Springer- Telecommunication Systems Journal*).
- Led the ML component of TÜBİTAK 1001 project on wireless node topology and live location detection under earthquake debris; designed algorithms that improved detection accuracy by 2.4% and optimized node topology for disaster scenarios (*ongoing*).

Teaching Assistant | Khartoum, Sudan **Nov 2017 – Feb 2025**

Al Neelain University | Hybrid

- Conducted 100+ online and onsite classes and lectures, engaging with over 35 students per session.
- Implemented software and hardware robotic classes, overseeing projects for 80 students.
- Evaluated 9 microcontroller projects for 80 students. Also tutored 3 other courses.
- Collaborated with colleagues to develop and refine course materials and curriculum.

Teaching Assistant | Khartoum, Sudan **Feb 2018 – Sep 2018**

University of Medical Science & Technology

- Assisted in lectures and guided 10+ students on 4 subjects and graduation projects.
- Led 3 extra PLC/SCADA classes, achieving 92.6% student success.

ACADEMIC PROGRAMS & TRAINING

Research Assistant | Krakow, Poland **July 2026 – Present**

AGH University of Science and Technology

- Contributing to MUTASK, a €1.5M CHIST-ERA project involving French, Swiss, and Polish partners; leading the evaluation of AI-generated video-segment depth incoherence and the development of the MUSTUDIO component within the multimodal scientific knowledge-processing pipeline.

ELLIS AI Winter School on Foundation Models | Amsterdam, Netherlands **23 – 27 March 2026**

- Explored foundational concepts in deep learning and **LLMs**, covering **hyperbolic foundation models**, universal concepts, post-training methods, and **interpretability** beyond the black box.
- Examined specialized models tailored for tabular data and **multilingual contexts**, alongside analyzing the ethical implications of human data learning and real-world AI value creation

M2L AI Summer School 2025 | Split, Croatia

08 – 12 Sep 2025

- Selected participant (18% acceptance rate) fully funded.
- Attended 22 hours of lectures and 10 hours of workshops by leading AI experts, plus 4 hours of discussions.
- Focused on **generative/diffusion models**, reinforcement learning, and **LLMs**.

Research Assistant | Krakow, Poland

Aug 2025 – Oct 2025

AGH University of Science and Technology – Erasmus+ Internship

- Conducted advanced statistical analysis and data curation for a study published in MDPI Electronics investigating the impact of environmental control on video Quality of Experience.

Software Engineering Program with Backend Specialization | Online

Dec 2023 – Feb 2024

Alx-Africa- Fully funded by MasterCard

- **Backend Architecture & APIs:** Developed scalable server-side logic and RESTful APIs utilizing Python (Django) and JavaScript (Node.js, Express.js), backed by foundational proficiency in C programming and Unix systems.
- **Database Management & DevOps:** Designed data storage solutions using both relational (MySQL) and NoSQL (MongoDB, Redis) databases, and automated application deployments using CI/CD pipelines, and Docker.

SELECTED AI & ENGINEERING PROJECT

AI-Powered CRM & NLP Entity Extraction

Python, Gemini AI, SQL

- Engineered an automated lead-generation system using **Gemini Flash 2.5** to extract structured contact data from business card images, served in real time via Flask REST endpoints over a deduplicated SQLAlchemy/PostgreSQL data layer.

Corporate web platform for *Armtek Elektrik*

Next.js, React, Tailwind CSS

- Designed and delivered the corporate web platform for Armtek Elektrik (MV/LV switchgear manufacturer): multilingual routing, structured product catalog, site-wide search, quote-request flow and KVKK compliance pages, live at <https://armtek.com.tr>.

SELECTED PUBLICATIONS

- Dutta, A.; **M. T. M. Saeed**; Arawade, S.; Samčović, A.; Uddin, S.; Juszka, D.; Grega, M.; Leszczuk, M. Impact of Environmental Control on Subjective Video Quality Assessment in Crowdsourced QoE Experiments. *Electronics* 2026, *15*, 1666. <https://doi.org/10.3390/electronics15081666>.
- **M. T. M. Saeed**, M. A. A. Yousif and I. Ozturk, "Mitigating Device Heterogeneity for Enhanced Indoor Positioning System Performance Using Deep Feature Learning," in *IEEE Access*, doi: 10.1109/ACCESS.2025.3621505.
- **M. T. M. Saeed**, M. A. A. Yousif and A. A. M. Hakim, "TransConvNet: Enhancing Kidney Abnormality Detection in CT Imaging through Hybrid Transformer-CNN Model with Integrated Explainability," *2024 12th International Scientific Conference on Computer Science (COMSCI)*, Sozopol, Bulgaria, 2024, pp. 1-5, doi: 10.1109/COMSCI63166.2024.10778503.

LANGUAGES

- **Arabic** : Native (Mother language).
- **English** : C1 level (CEFR), 93% in Erasmus+ English exam.
- **Turkish** : C1 level, 82% in Istanbul University Turkish proficiency test.