

# Haya Mahmoud Abdallah

Communication and Electronics engineering student at EUI

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## Profile

Embedded systems and IoT engineer with expertise in **microcontrollers, data analysis, and web development**. Experienced in building **end-to-end solutions** from firmware to cloud dashboards, with a track record of success in **international hackathons and research competitions**. Skilled in translating **complex technical concepts into practical applications** across healthcare, automation, and data-driven systems.

## Education

### Bachelor of Engineering, Computer Engineering

Egyptian University of Informatics (EUI), New Administrative Capital, Egypt

*Expected Graduation: 2029*

*CGPA: 3.89 / 4.0*

*Scholarship: Full Academic Excellence Scholarship*

### STEM High School Graduate

STEM School, Ismailia, Egypt

*Graduated: 2024 | Score: 108% (Ranked among Top 200 students nationwide)*

## Technical Skills

- **Programming Languages:** C, C++ (including Embedded C), Python, JavaScript
- **Hardware & Electronics:** Arduino, AVR microcontrollers, IoT systems, circuit design
- **Data & Visualization Tools:** Excel, SQL, Power BI, Tableau, Python for Data Analysis (Pandas, NumPy)
- **Tools:** MATLAB, GitHub, Arduino IDE, Data Camp (AI)
- **Soft Skills:** Leadership, public speaking, project management, time management, teamwork.

## Training and Certifications

- **NTI Microcontrollers Training Program – NTI (2025)**
  - 120 hours (90 technical + 30 soft skills)
  - Covered embedded systems, microcontroller programming, peripheral interfacing, circuit design, IoT integration, and core MCU concepts.
- **SAIT Web Development Fundamentals Bootcamp – SAIT (2025)**

2 months. Covered:

  - HTML, CSS, and JavaScript fundamentals
  - Responsive design and modern front-end practices
  - Converted Figma UI/UX designs into fully functional websites
- **Data Analysis Diploma – KIMIT Academy (2025)**

4 Months. Gained practical skills in:

  - **Excel & Power BI** for data visualization and reporting.
  - **Python & Python for Data Analysis (Pandas, NumPy)** for statistical and exploratory analysis.
  - **SQL** for database querying and management.
  - **Tableau** for business intelligence dashboards and interactive analytics.

## Achievements and Projects

- **SolveThe17 Hackathon Winner, IEEE EUI SB (2025)**  
**1st Place** for HealthGuardian, an IoT-based COPD monitoring bracelet.
  - Integrated MAX30100 (SpO<sub>2</sub>/HR), ADXL345 (activity detection), and AQI API for real-time health alerts.
  - Developed a Blynk IoT dashboard for remote monitoring.
  - Aligned with UN SDGs 3 (Health) and 11 (Sustainable Cities).
- **Smart Home Automation System (2024)**
  - Arduino-based lighting & security automation project.
- **ISEF National Finalist (2023)**
  - Developed an eco-friendly alternative to plastic bags using pomegranate peels in environmental engineering category.
- **S.T. Yau High School Science Award, Physics (2023)**
  - Research on phonon energy & momentum in semiconductors.
- **Undergraduate Research Forums - Nile University (2025, 2022)**
  - IoT health-tech competition (2025) & hydrogen energy project (2022).

## Leadership & Experience

- **Vice-Head of Business Development Committee, RALLY EUI (2025)**
  - Contributed to entrepreneurship events, recruitment strategies, and a two-day boot camp with 35+ universities in Port Said.

## Awards & Honors

- **Egyptian National Rowing Championship (2024, 2023)**
  - Silver Medal; consistently ranked in Top 4 in 8 national competitions.
- **Full Academic Excellence Scholarship, EUI (2024)**
- **SolveThe17 Hackathon Winner – IEEE EUI SB (2025)**

## Languages

- **English:** Fluent (IELTS Certified)
- **Arabic:** Native