

# Mohammed Hedi Abdellatif

GitHub Portfolio

LinkedIn Profile

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Embedded Systems & IoT Student

## EDUCATION

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- **Higher Institute of Computer Science, Mahdia** Mahdia, Tunisia  
*Bachelor's degree in Computer Engineering: Embedded Systems & Internet of Things* *Sep 2023 - Present*
- **High School Beni Khiar** Nabeul, Tunisia  
*Baccalaureate in Computer Science* *Sep 2019 - Jun 2023*

## TECHNICAL SKILLS

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- **Embedded & Hardware:** ESP32/Arduino/Raspberry Pi; Sensor Integration; **Communication Protocols:** UART, SPI, I2C, BLE, LoRa, Wi-Fi; **IoT Protocols:** HTTP, MQTT
- **Programming:** C, C++, C#, Python, Node.js, Java, Dart — Docker, VS Code, Git/GitHub, STM32CubeIDE, Vivado/Vitis, Virtual Machine, Cisco(CCNA Basics), Proteus, Arduino IDE, LabVIEW ; Flutter, Android Studio ; MongoDB, Firebase
- **Soft Skills:** Team Collaboration, Adaptability, Commitment
- **Languages:** French, English, German (Beginner)

## PROJECTS

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- **Intelligent Home Security System—ESP32-CAM, HTTP, Arduino IDE, Flutter** *Academic Project*
  - Developed a multi-sensor security system using ESP32-CAM programmed via Arduino IDE, with a Flutter mobile app for remote monitoring and alerts.
- **Smart RFID Attendance System—Python, SPI, UART, RFID, Proteus** *Personal Project*
  - Developed an automated attendance logging system combining RFID hardware with Python GUI, simulating circuits in Proteus.
- **Student Performance Predictor—Python, Scikit-learn** *Personal Project*
  - Built a machine learning model to predict student success using Scikit-learn, applying NVIDIA DLI concepts.
- **TrackoRa —Heltec LoRa 32, C++, DHT22, HTML, Dart, FireBase** *Academic Project*
  - Developed a Long-range asset tracking system using LoRa technology with real-time GPS monitoring and mobile dashboard..

## PROFESSIONAL EXPERIENCE

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- **Tunisie Telecom** Nabeul, Tunisia  
*Full-Stack & Mobile Development Intern —Tech: Node.js, Express, Flutter, Dart, MongoDB* *Jul 2025 - Aug 2025*
  - Developed an internal Internship Management App using Flutter and Node.js/Express with MongoDB, contributing to internal tools in an Agile environment.
- **CGI Studio** Nabeul, Tunisia  
*Game Development Intern* *Jun 2025 - Aug 2025*
  - Collaborated on a 3D First-Person Shooter prototype in Unity, assisting with 3D modeling in Blender/Fuse and game development pipelines.

## CERTIFICATIONS

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- **NVIDIA Deep Learning Institute (DLI) Certificate:** Fundamentals of Deep Learning