

# Ahmed Ali MOHAMED YASSINE

## Embedded Systems Engineer, Low-Level Developer

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## PROFESSIONAL EXPERIENCE

- Jul 2024** | **Backend Developer | Internship - Mobelite, CENTRE URBAIN NORD, TUNIS,**  
**Jul 2024**
- Developed a chunk-based upload system.
  - Increased transfer throughput by 40% through packet optimization.
  - Implemented in Java with automatic resume functionality.
- Java Network Optimization Multipart Upload Backend Git
- Jan 2023** | **Final Year Project — Trackify | ST2I / FST - Embedded Systems, TUNIS,**  
**May 2023**
- Designed and developed a complete vehicle tracking solution.
  - Developed a web visualization interface using Angular and Express.js.
- Angular Express.js IoT Embedded Systems Web Fullstack

## EDUCATION

- Present** | Embedded Systems Engineering at **Higher Institute of Computer Science (ISI)**
- 2020–2023** | Bachelor's Degree in Embedded Systems (Honors) at **Faculty of Sciences of Tunis (FST)**
- 2020** | Baccalaureate in Mathematics at **Pères Blancs High School, Menzah 4**

## PROJECTS

- GOOEYBUILDER - SPECIALIZED IDE** 2025–PRESENT  
Designed a powerful IDE for GooyGUI featuring a visual editor with compilation to accelerate embedded GUI development. ANSI C GUI Compilation Embedded Frameworks
- GOOEYGUI - GRAPHICS FRAMEWORK** 2024–PRESENT  
Engineered a lightweight, cross-platform graphics library optimized for embedded systems with multi-windowing support. ANSI C Embedded Systems Graphics Wayland Win32 API
- GLIMPSE - WINDOWING SYSTEM** 2024–2025  
Implemented a robust, cross-platform window management system supporting Win32, Wayland, and X11 environments. Win32 Wayland X11 Embedded Systems
- PYVALOAPI - UNOFFICIAL VALORANT API** 2023  
Developed a sophisticated Python library interfacing with Valorant's client API. Published on PyPi. Python REST API Reverse Engineering PyPi HTTP
- SMART GARAGE - FINAL YEAR PROJECT** 2022  
Delivered an end-to-end IoT security solution for garages, integrating hardware and mobile app for remote monitoring. ESP32 Security IoT TensorFlow React Native
- BLINK SFTP CLIENT - CROSS-PLATFORM SFTP CLIENT** 2022  
Created a feature-rich Java SFTP client with JavaFX UI, modular plugin system, and seamless auto-update capabilities. Java JavaFX JSch SFTP GUI
- PHOTON IDE - PYTHON IDE** 2022  
Built a cross-platform Python IDE with embedded interpreter and syntax highlighting. PySide6 Python Regex
- TINIFY - URL SHORTENING SERVICE** 2022  
Developed a scalable, open-source URL shortening service using Python and Flask, emphasizing simplicity and performance. Flask Python HTTP

## TECHNICAL SKILLS

- Embedded Systems :** ARM Cortex-M, STM32, ESP32, Arduino, Raspberry Pi, FreeRTOS, bare-metal
- Graphics/UI :** OpenGL ES, LVGL, TFT-eSPI, SDL, X11, Wayland, Nuklear, Dear ImGui, Qt (Embedded), Win32 API
- Tools :** Git, GDB, CMake, Make, STM32CubeIDE, Keil µVision, PlatformIO, Logic Analyzer, Oscilloscope
- Protocols :** UART, SPI, I2C, CAN, USB, TCP/IP, MQTT, BLE, HTTP

## CERTIFICATIONS

- Microsoft Certified : Azure AI Fundamentals (AI-900) – Microsoft
- Excel Certification – Microsoft
- Python for Data Science, AI Development – Coursera
- Data Analytics, Storage, Mining Visual Big Data Technologies – Udemy

## PERSONAL SKILLS

- Leadership
- Teamwork
- Active listening
- Adaptability

## LANGUAGES

- English
- French
- Arabic

## SOCIAL EXPERIENCE

- Competed in the CTF challenge at Securinets ISI | 2025, ENIT Tunis
- Participated in the IEEE Extreme Hackathon | 2022, FST Tunis