

ABDELLAOUI MOHAMED KHALIL

Engineering Student – Computer Science & Telecommunications (ENSEEIH)



ABOUT ME

Future Computer Science Engineer, passionate about AI, software development, and Data. I aim to contribute to innovative projects by applying my technical skills and my passion for innovation.

CONTACT

- ✉ mohamedkhalil.abdellaoui
- ☎ 07 48 51 09 35
- 📄 Abdellaoui Med Khalil
- 📍 Toulouse, France

LANGUAGES

- French (Bilingual)
- Arabic (Native)
- English (Bilingual)
- Spanish (Beginner)

TECHNICAL SKILLS

- Java | Ada | Python | C **++++**
- MATLAB/Simulink | CRAPS Assembler **+++**
- HTML | CSS **+++**
- Networks & Protocols | Linux (basic admin) | OCaml **+++**
- Git | VS Code | Wireshark | LaTeX **+++**

SOFT SKILLS

- Problem-solving
- Curiosity
- Adaptability
- Communication

EDUCATION

- INP-ENSEEIH, Toulouse** **2024-2027**
Digital Sciences Department: AI (In progress).
- CPGE Ibn Khatib** **2023-2024**
Preparatory Classes MP* (Intensive Maths/Physics).
- CPGE Moulay Youssef** **2022-2023**
Preparatory Classes MPSI. Main subjects: Mathematics, Physics, Computer Science, Engineering Sciences.
- Madariss Maria, Morocco** **2021-2022**
Baccalaureate (High Honors).

PROJECTS

Self-balancing Robot (Lego NXT)

◇ Inverted pendulum control with embedded sensors; real-time stabilization loop (C).

Unix Mini Shell

◇ Command interpreter using `fork/exec`, pipes, and redirections (C).

Simplified ISP Simulator

◇ Addressing, routing, and client management; validation via ping/traceroute and configuration scripts.

2D Game

◇ Development of a complete 2D game, integrating a solid architecture (Backend, Frontend, and Middleware modeling).
◇ Application of Object-Oriented Design (OOD) for the creation and implementation of all game classes (logic, entities, etc.) (Java).

Huffman Text Compressor

◇ Lossless compression/decompression; full codec implemented (Ada).

Cycling Helmets (TIPE)

◇ A symbiosis between road safety and performance: influence of helmet geometry on performance; study of helmet materials.

EXPERIENCE

Participation in Thales Battle Dev 2025 | Thales **October 2025**
Programming challenges in **Python** and **Java**: solving algorithmic exercises.

▷ Ranking: **2nd** at **ENSEEIH** and **42nd** nationwide (France).

Academic Tutoring | MathsAventuras, Toulouse **2024-2025**

Volunteering | Moroccan Villages **Summer 2022-2023**