

Mohammed Amine El Ouardini

Computer Engineering Student

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🌐 Mohammed Amine El Ouardini

PROFIL

Engineering student passionate about AI, image processing, and computer vision, seeking an M1 internship in artificial intelligence. My experience at Velours3D in image processing, along with my projects in computer vision and deep learning, have enabled me to develop solid expertise that I wish to put at the service of an innovative R&D team. I am also highly proficient with advanced AI tools such as Claude Code and Cursor to accelerate prototyping, improve code quality, and rapidly explore new ideas, which strengthens my ability to develop high-performance and innovative solutions.

Professional Experience

STAGE IMAGE PROCESSING, VELOURS3D	06/2025 – 08/2025
<ul style="list-style-type: none">Quantitative and qualitative study of user-generated images for integration into a 3D applicationImage preprocessing and standardization using Python, OpenCV, and NumPyAutomation and accelerated development using agentic AI tools: Claude Code and CursorImplementation of automated pipelines for image enhancement, shadow removal, and background filteringCollaboration with design and development teams to integrate assets into the 3D workflowExploration of neural network-based solutions to improve background removal and content isolation	
TUTOR	Present
<ul style="list-style-type: none">Supporting middle school students in their academic journey and career guidance	

EDUCATION

Engineering Degree, Toulouse INP - ENSEEIHT	2024 – 2027
Second year, Image & Multimedia specialization	
CPGE -MPSI/MP, high school Errazi, Maroc	2022 – 2024 Maroc
Mathematics, Physics, Computer Science, and Engineering Sciences	
Scientific Baccalaureate, High school, Maroc	2021 – 2022 Maroc
Mathematics specialization	

PROJECTS

FOOTBALL ANALYSIS SYSTEM, MACHINE LEARNING / COMPUTER VISION / DEEP LEARNING	PYTHON
<ul style="list-style-type: none">Detection of players, referees, and ball using YOLOv8 and trackersPlayer segmentation by jersey color using KMeansPlayer movement tracking with Optical Flow and perspective transformation to measure distance and speed	

- Complete project addressing real-world problems and ML model performance optimization

AUDIO APPLICATION

JAVA

- Interactive application for sound creation and manipulation
- Intuitive interface for audio editing and music creation

DATA COMPRESSION

ADA

- Implementation of compression algorithm with Huffman coding
- Performance optimization and memory management for large files

MINISHELL – INTERPRÉTEUR DE COMMANDES UNIX

C

- Operating systems (Process management, signals, I/O)

WEB PORTFOLIO

NEXT.JS & TAILWIND CSS

- Personal website with responsive design, light/dark mode, and smooth animations



SKILLS

Programming

Python, Java, ADA, C

ML/Computer Vision

OpenCV, YOLO, NumPy, Scikit-learn

Tools

Linux, Git(Hub/Lab), VS Code, Eclipse, MATLAB

IA & Automation

Claude Code, Cursor, GitHub Copilot

Critical Thinking

Effective Communication

Flexibility

Negotiation



LANGUAGES

Arabe: (maternelle)

Français: (Bilingue)

Anglais: (Courant)

Espagnol: (Débutant)



INTERSTS

• BasketBall

• Fitness

• Music & events