

MOHAMED REDA TOUIL

Electronics engineer | robotics, automation, PCB design and embedded systems.

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EDUCATION

Mathematics Baccalaureate

2019 National
• Average: 15.25 | Honors: Good.

Preparatory Classes Student

2019 – 2022 ENSTP, COUBA, Algiers

Competitive Engineering Exam

2022 National
• Ranked 120th out of 1576

Electronics Engineering Student

2022 – 2025 Ecole Nationale Polytechnique, Algiers

EXPERIENCE

PCB Internship

Dec. 2022 DC/RD SONATRACH, Boumerdes
• Designed and developed printed circuit boards for industrial control systems at SONATRACH.

Satellite Communication Internship

Mar. 2023 Algeria Telecom Satellite, Lkhedaria
• Explored the fundamentals of satellite communication systems.

DSP Microcontroller Programming

Dec. 2023 DC/RD SONATRACH, Boumerdes
• Programmed the dsPIC30F4011 microcontroller.

Instrumentation and Programmable Logic Controllers (PLCs)

Mar. 2024 Algerian Petroleum Institute (SONATRACH)
• Programmed Siemens PLCs for process automation.

Research Intern at CDTA (Eurobot)

Dec. 2024 Algiers, Algeria
• Contributing to the environmental perception system of a mobile robot for Eurobot2025, France.

Final Year Research Project (PFE)

Jun. 2024 – Jun. 2025 ENP, Algiers | CHU Frantz Fanon, Blida
• Developed an automated 3D liver segmentation pipeline using deep learning and integrated it into a mixed-reality application for pre-operative surgical planning, in collaboration with the General Surgery Department.

CERTIFICATIONS

PROFESSIONAL DATA SCIENTIST
Sep. 2024 from DataCamp

ACHIEVEMENTS

Data Analyst in Python
36 hours of DataCamp courses completed, including projects on data manipulation, visualisation and cleaning.

Cloud Computing
Two 2-hour DataCamp courses on cloud-computing fundamentals.

Python Data Manipulation Pandas
Statistics Cloud Computing AWS

Competitions
Participated in multiple robotics competitions – Algerian Robot Cup, League of Robotics, ALGO-Challenge, Polymaze (as participant and jury) and Eurobot – building several autonomous and remote-controlled robots. Also took part in data & AI contests such as the Algerian Data Cup (participant) and Synapson (organiser).

Leadership Teamwork Work Ethic
Project Management Decision Making

Associative Activities
As an HR member of the Vision and Innovation Club (VIC) and an IT team member of the IEEE Student Branch, I helped organise several events.

Teamwork Organisation Motivation
Collaboration Social Skills

SKILLS

Programming
Python C/C++/C# Arduino LaTeX

Robotics
Linux ROS Docker Perception

Machine Learning
Scikit-Learn Keras TensorFlow
PyTorch NLP MRI CT Scan
Monai nnUnet dicom NIFTI File

Languages
Arabic French English