

SALIM BRAHMI

Mechatronics Engineer | Automation | Robotics | IT & Networks

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Location: Tunisia

Professional Profile

Experienced Mechatronics Engineer with multidisciplinary expertise in mechanical engineering, industrial automation, robotics, embedded systems, computer vision, and IT infrastructure. Strong background in automotive technologies, manufacturing optimization, and industrial maintenance.

Core Competencies

• Mechatronics Engineering
• Industrial Automation & Robotics
• Mechanical Design (SolidWorks, CATIA, Creo)
• Embedded Systems (STM32, ESP32, Arduino, FPGA)
• Computer Vision & OpenCV
• Network Administration & Cybersecurity
• Project Management & Industrial Maintenance

Professional Experience

Engineer IT – Gulf Groupe, Kuwait (2024–2026)

Deployment of IT infrastructures, network optimization, cybersecurity enhancement and systems administration.

Mechatronics Engineer – Mesemotors, Turkey (2021–2024)

Development of automated braking systems, robotic solutions and intelligent communication systems for vehicles.

Leader of Mechanics Team – CPG Tunisia (2020–2021)

Industrial maintenance leadership, diagnostics and preventive maintenance strategies.

Mechanical Technician – Othman Auto Company (2017–2020)

Maintenance and troubleshooting of automotive mechanical systems.

Featured Projects

• 5-Axis Turning Machine Chuck Design (SolidWorks)

• Performance Evaluation Test Bench (CATIA / ANSYS)

• Humanoid Robotics Platform (Python / C++)

• Autonomous Transport Robot (Arduino)

• Smart Ergonomic Chair System (ESP32)

• Industrial Quality Inspection Systems

• Lot Tracking and Manufacturing Monitoring Solutions

Technical Stack

Python, C++, Embedded C, SQL, MATLAB, PLECS, EPLAN, OpenCV, STM32, ESP32, FPGA, Arduino, Raspberry Pi, SolidWorks, CATIA, CAD.

Education & Certifications

Master in Mechatronics Systems
Faculty of Sciences of Gafsa

Bachelor in Mechanical Engineering
Institute of High Technologies of Gafsa

Certifications

• CSWA Certification
• Photovoltaic Installation Certification
• Business Analysis Process Management (Coursera)