

HADJAR MEKAHLIA

Annaba, Algeria

Hadjermeka20@gmail.com , (+213) 675056008

SUMMARY

Biomedical Engineering graduate passionate about healthcare innovation and entrepreneurship, with expertise in medical device design, prototyping, embedded systems, 3D CAD, Robotics, signal processing, and applied AI. Experienced in startup incubation, technology project management, and developing intelligent solutions, demonstrating strong entrepreneurial skills.

EXPERIENCE

Intern – Medical Equipment Maintenance, Alia Saleh Medical Emergency Department - Contributed to biomedical equipment and medical device operations. - Developed skills in testing, maintenance, and application of medical technologies..	Dec 2020- Jan 2024 Tebessa - Algeria
Researcher – Alia Saleh Hospital - Conducted clinical trials for an innovative medical device. - Performed maintenance of medical equipment.	Apr 2024 - Dec 2024 Tebessa - Algeria
Fabrecreation Laboratry Member – Batna University - Executed technical projects in various domains. - Prepared and conducted workshops and training sessions.	Dec 2023 - Jul 2024 Batna - Algeria
Teaching– Afaaq Academy Taught the fundamentals of robotics and programming	Jan 2024 - Jul 2024 Batna - Algeria
R&D Engineer - Biomedical engineering Services Company Research and development of surgical medical devices	Nov 2025 - jan 2026 Annaba - Algeria
Robotic Coach and AI Trainer · International Training Center CDM Coaching Robotic STEM with Micro:bit	Present Annaba - Algeria

EDUCATION

Master’s Degree in Biomedical Instrumentation Mustapha Ben Boulaid University, Batna Master’s Thesis: "Development of a Non-Invasive Anemia Detection Device".	Sep 2022- Jul 2024 Batna -Algeria
Bachelor’s Degree in Biomedical Engineering Tebessa University Bachelor’s Thesis: "ECG Signal Analysis for Clinical Study and Application".	Sep 2018 - Aug 2021 Tebessa - Algeria

PROJECTS

Vein Detector Ongoing Project - Startup Project Developed an optical device to assist in vein localization for patients.	Sep 2025- Present
Revive Pro. In Development – Startup Project Designed an AI-assisted smart prosthetic arm with unique 3D modeling with integrated rehabilitation functionalities into the prosthetic system.	Dec 2024- Present
Hemoptie Device. In Development – Startup Project Developed a medical device to detect anemia and analyze white blood cell count non invasively.	Apr 2024- Present

Competitions & Achievements

Rocketry – National Competition, Blida (2023) Designed and launched an experimental rocket. 3rd place nationally.
International Robotics Competition, Carthage – Tunisia (2024) Developed an autonomous all-terrain robot 4th place internationally.
Pixel Competition – Faculty of Medicine, Batna (2024) Developed a smart medical watch with an integrated electronic health record. 3rd place nationally.
Hackathon “Risk Management in the Pharmaceutical Industry” (CRE, Annaba, 2025) Developed an intelligent industry maintenance solution 2nd place nationally.

Additional Informations

Technical Skills: Programming (C/C++, Python) | 3D Modeling (SolidWorks, AutoCAD, Blender) | Robotics & Automation | AI & Machine Learning Fundamentals | Biomedical Devices | Signal Processing | Microsoft Office Tools.

Languages: Arabic (Native) | French (Intermediate) | English (Advanced) | German (Basic)

Trainings & Certifications: Entrepreneurship, BMC, AI, Finance – Batna University Incubator | Annaba University Incubator
Workshops in Robotics and Programming – Afaaq Academy
Robotic Coaching Certification - Aissaoui Robotic And AI Center
Entrepreneurship - CDE Annaba University
AI Generative & Vibe Coding Training Certificate – 21–23 July – GIZ (German Cooperation)