

AKRAM DEKHILI

“Mechanical Engineer”

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PROFESSIONAL SUMMARY

Results-Oriented Mechanical Engineer with a Master’s degree and a strong background in mechanical design, structural analysis, and manufacturing processes. Familiarity with SolidWorks, ANSYS Workbench, and Finite Element Analysis (FEA). Seeking an entry-level position in engineering in the Boston area, utilizing knowledge in Quality Control, CAD, and 3D printing to deliver innovative solutions in engineering.

TECHNICAL SKILLS

- CAD & Simulation: SolidWorks, ANSYS Workbench, Finite Element Analysis (FEA), Engineering Drawings & GD&T
 - Manufacturing & Prototyping: 3D Printing, CNC Machining, Material Selection, Basic Welding
 - Analysis & Testing: Stress & Fatigue Testing, Quality Control, Metrology, Material Testing
 - Languages: Arabic (Native), English (B2 ielts), French (Fluent)
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EDUCATION

Bachelor of Science in Mechanical Engineering -University of 8 Mai 1945, Guelma, Algeria
2019–2022

- Thesis: Study and Installation of LPG conversion Kit on cars.

Master of Science in Mechanical Engineering - University of 8 Mai 1945, Guelma, Algeria
2022–2024

- Thesis: Design, Development, and Mechanical Characterization of 3D Printed Tubular Structures.
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ENGINEERING EXPERIENCE

• **Industrial Training Intern in Sidar El Hadjar Steel Complex, Annaba, Algeria 2020:**

Observed large-scale industrial manufacturing processes in steel production. Learned about material properties and heat treatment in metal fabrication. Assisted in basic mechanical maintenance tasks in the facility.

- **Mechanical Engineering Intern in Setif Pipe, Sétif, Algeria 2021:**

Assisted in manufacturing and quality control of industrial pipes. Conducted stress and fatigue analysis on pipe structures.

Supported metrology and material testing for durability analysis.

- **Automotive Mechanic Intern in LPG car Conversion Workshop, Sétif, Algeria 2022:**

Installed LPG kits on multiple vehicle models, optimizing fuel efficiency.

Performed diagnostics and maintenance on converted engines. Gained hands-on experience with engine tuning and fuel system calibration.

U.S. PROFESSIONAL EXPERIENCE (Transferable Skills)

PAX Agent Swissport (Qatar Airways), Boston Logan International Airport 2025-Present:

- Managed high-volume passenger flow and documentation verification in a fast-paced, high-stakes international environment.
- Demonstrated exceptional teamwork and coordination skills to ensure on-time flight operations and customer satisfaction.

Crew Member Wendy's, Boston 2025-2026

- Maintained high standards of quality control and efficiency in food preparation and service during peak hours.
- Developed strong multitasking and customer service skills while operating POS systems and managing complex orders.