MALKI KAWTAR

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PROFILE

Mechanical Engineering student specializing in Structures and Product Engineering, I have advanced skills in design, simulation and analysis of mechanical systems. Passionate about technological innovation and solving complex problems, I am looking for an **end of studies internship for a duration of 4 to 6 months starting from February 2026.**

PROFESSIONAL EXPERIENCE

End-of-year Project Internship : Tuyauto automotive equipment supplier **July 2025 - September 2025**

- Risk assessment of production change from aluminum to steel on PR28 630T mechanical press.

Introductory Internship: National Railway Office - Equipment Division **July 2024 - August 2024**

- Discovery of rolling stock maintenance activities and railway industrial operations.

PROJECTS

Design study of a centrifugal press **February 2025 - June 2025**

Synchronization of two motors via an epicyclic gear train, design and modeling in Catia V5 and finite element analysis. Mechanical dimensioning and functional validation. Application of the TRIZ method for functional optimization.

Design and manufacturing of a wind turbine blade mold in polyester resin and fiberglass. **February 2025 - June 2025**

Study of the geometry of a wind turbine blade and mold production. CAD modeling, structural and aerodynamic study.

Aerodynamic and structural analysis of a battery electric vehicle **October 2024- February 2024**

Numerical simulation (CFD and finite element analysis) for aerodynamic optimization and structural validation of an automotive chassis. Study of performance, stability and safety.

Design and dimensioning of an electric cable winding machine **February 2024 - June 2024**

Functional and kinematic analysis, design of the drive and guidance system. Transmission calculations (gears, shafts, bearings) according to ISO standards.

Design and dimensioning of a translation cart for machining unit **October 2023-February 2024**

Design and modeling of a linear displacement system. Complete mechanical study with dimensional validation.

EDUCATION

ENSAM Meknès – National School of Arts and Crafts (University Moulay Ismaïl)

- Mechanical Engineering, Structures and Product Engineering - Engineering Degree Program In progress
- Integrated preparatory classes

Manarat Al Firdaous High school

- International Baccalaureate International Sciences Physiques - Highest Honors 2020

SKILLS

- **CAD Software / 3D Modeling** : Catia V5, Solidworks.
- **CAE Calculation and Simulation** : Ansys , Abaqus , RDM6, Robobat.
- **Environmental Analysis** : OpenLCA.
- **Programming** : C/ C++ , Python.
- **Office Software** : Pack Office (Word, Excel, PowerPoint)
- **Languages** : French-fluent , English-fluent , Arabic- native language.

CERTIFICATES

- Fundamentals of Computer-Aided Engineering - ESS Institute
- FEA: convergence and mesh independence - Coursera Applied Project .
- FEM: linear, non-linear and post-processing analysis - Coursera Applied Project

INTERESTS

- Extracurricular experiences : Editor-in-chief - Club Ensam Express , Debater (Agon-ISCAE , Invictus ENCGF) , Member of the Social Club .