

# MOUADH SEHLI

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## PROFESSIONAL EXPERIENCE

**LUCEOR LAB      TUNISIA**  
**MECHANICAL ENGINEER**

**JUIL/2023-CURRENT**

- Developed and optimized a new mechanical component using thermal analysis, stress and vibration simulations, achieving a 15% reduction in manufacturing costs and a 10% increase in product performance.
- Collaborated with cross-functional teams to troubleshoot design issues, employing simulation techniques that led to a 20% decrease in product defects and a 25% boost in customer satisfaction.
- Implemented design standards and best practices, leveraging simulations for a 30% improvement in design efficiency and a 20% reduction in design cycle time.
- Conducted through thermal analysis simulations to enhance component functionality and durability, ensuring compliance with performance requirements and regulations.
- Utilized stress and vibration simulations to identify and address design weaknesses, resulting in improved product reliability, safety, and overall performance.

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## PERSONAL PROJECTS

### **Light Aircraft Landing Gear Design (ENIT/AVIONAV):**

- Created functional specifications for an aircraft landing gear.
- Designed an aircraft landing gear for a light aircraft model using Catia V5.

### **Vane Pump 3D Modeling (Catia V5):**

- Conducted 3D modeling of a vane pump.
- Performed geometric modeling of parts and assembly.

### **Hydraulic Lift Table Design (ENIT):**

- Developed functional specifications for a hydraulic lift table.
- Designed components of the lift table using SolidWorks.
- Conducted modeling and dimensioning of the lift table elements .

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## EDUCATION

**MECHANICAL ENGINEER DEGREE**  
**National Engineers School of Tunis**

**JUIN\_2023**

Courses : Mathematics, Finite element analysis (FEA) , CFD analysis , structure analysis, Thermal analysis

**BACHELOR DEGREE**

**Sadiki School of tunisia**

**JUIN\_2018**

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## SKILLS

- Mechanical design and analysis
- 3D CAD modeling : SOLIDWORKS | CATIA | ONSHAPE
- Finite element analysis (FEA) : ABAQUS | ANSYS | SUMILIA
- Computational fluid dynamics (CFD) : ANSYS
- Design for manufacturing (DFM)
- Design for assembly (DFA)
- Geometric dimensioning and tolerancing (GD&T)
- Material selection and sourcing
- Project management
- Engineering documentation and drawing
- Bill of materials (BOM) creation
- Stress analysis
- Cost reduction and optimization
- Product lifecycle management (PLM)
- Rapid prototyping and 3D printing
- Design validation and testing
- Quality control and assurance
- Customer satisfaction and feedback analysis
- Continuous improvement and innovation

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## LANGUAGES

**FRENCH : Delf B2**

**ENGLISH : Toeic B2 (810)**

**GERMAN : A2**