

Mechanical Engineer

Mechanical design Specialist



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PROFILE

Fresh mechanical engineering graduate with extensive experience in the fields of design and numerical simulation. I have a versatile profile I stand out for my enthusiasm and dedication for innovation and science.

PROFESSIONAL EXPERIENCES

CAD Intern | SAFRAN Aerospace

Mars-August 2021

Nabeul, Tunisia

- ✓ **Project: Design and simulation of modular armrest for business class**
- Design of a new idea for a modular automatus armrest on Catia v5.
- Calculation and simulation of the resistance of designed parts.
- Preparation of the technical file (general and detailed plans, quotation etc...)

CAD Intern | TUNICAST Foundry

July - August 2020

Megrine, Tunisia

- ✓ **Project: Design and Analysis of a dip core support.**
- 3D design of a innovative dip port support on SolidWorks.
- Simulation of the support on Ansys for a load of 200 Kg,
- Simulation of the gearbox housing cooling steps speed on Moldflow.

Industrial Maintenance Intern | ESSID

July 2019

Nabeul, Tunisia

- ✓ **Keywords:** Breakdown order forms, Security consignations, Inspection.
- Handling of numerically controlled machines.
- Maintains Formula pneumatic compressors.
- Maintenance of heat removal turbines.

EDUCATION

2018-2021 | National Engineering School of Tunis (ENIT)

National Diploma of Engineer in Mechanical Engineering

Accredited Label EUR-ACE® (European Accreditation for Engineering) by Cti.

2016-2018 | Preparatory Institute for Engineering Studies of Nabeul(IPEIN)

Preparatory Cycle for Engineering Studies in Mathematics – Technical
National Ranking in Final Exams: 106/760.

2015-2016 | Mahmoud el Messaadi Nabeul Technical High School

Scientific Baccalaureate "Technical" section.

ACADEMIC PROJECTS

Second year Project (02/2020 – 05/2020): ENIT

- ✓ Numerical simulation of wire drawing process using **Abaqus**.
- Simulation of the procedure with a parametric study through the Minitab software.
- Optimized wire drawing speed with Python.

Mini Projet: Design office Project (03/2020): ENIT

- ✓ Study and design of a resuscitation machine using **Solidworks**
- 3D modeling and kinematic study of the system.

Mini Project: CAD (10/2020 – 12/2020): ENIT

- ✓ realization of a 3D print machine using **Solidworks**.



Kais MANSOUR

PERSONNAL INFORMATION

Birth Date: 30/08/1997

Birth Place: Nabeul, Tunisia

Driving Licence B

LANGUAGES

Arabic, English (B2), French (B2), German (A1).

SOFTWARES

Simulation and Analysis:

ANSYS, ABAQUS.

3D design :

CATIA V5, SOLIDWORKS, INVENTOR,
SPACECLAIM.

Logiciel de GMAO :

PRELUDE 7 ERP, OPTIMAINT.

Programmation :

PYTHON, MATLAB, C.

Office automation: Microsoft Office, Latex,

CERTIFICATES

✓ Autodesk Certifications:

Modeling and Design for Mechanical
Engineers.

Intro to Digital Manufacturing.

✓ The State University of New York:

Digital Manufacturing & Design – Certificate.

✓ CEFConseil:

Certificate in ISO 9001:2015 (Quality).

COMMUNITY LIFE

05/2018 – 09/2020: Aerospace ENIT

✓ Project Manager: Responsible for
The realization of the "AIRBUS A320 RC"
project.

✓ Design of an F450 quadcopter drone.

✓ Participation in the completion of
Aerospina as a certified drone pilot.

2018-2020: ENIT Junior Enterprise

✓ Member of the Committee: Partnership
and Comercial Development.