Mohamed bouchnak

Electromechanical Engineer



Electromechanical engineer with a good understanding of practical concepts in both electrical & mechanical fields and 3 years of experience with several industrial companies and in the design of deferent machines and tools.

Good interpersonal and technical skills with the realization of several industrial projects

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09/20/1993



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PROFESSIONAL EXPERIENCE

02/02/2021 07/02/2021 Sousse-Tunisia

Mediterranean Motorcycle Industry Company

Head of workshop engineer (End of study project)

- Study and design of a special CNC machine for bending tubes
- Design and manufacture of frames and jigs for motorcycles
- Work as workshop manager (period 3 months) responsible for the organization of work and design of parts
- Maintenance of a conventional CNC tube bending machine

08/23/2020 09/30/2020 Mahdia-Tunisia

MEACATECH INDUSTRY

4th year Engineer internship

- ✓ Machining of impressions for deferent molds (CAM)
- Assembly and study for special machines

SMM - Maintenance service

07/23/2020 08/22/2020 Mahdia-Tunisia

09/01/2016

05/30/2018

08/01/2017 11/30/2017

Mahdia-Tunisia

Tunisia

3rd year Engineer internship

- Maintenance of the PFE machine (study, maintenance, manufacture)
- Optimization of the various production chains.

Freelance Designer (Solidworks)

- ✓ Industrial machine design
- ✓ Special machine design to order
- Design of 3d parts on Solidworks (3d, sheet metal, mechanically welded, deferent types of molds)
- Preparation of technical file for industrial machines and CAD parts)
- Reverse engineering of parts and special industrial machines

Company ECM Engineering Study Office

Technician position (training and work)

- Preparation of technical file for industrial machines (Catia v5)
- ✓ Design and preparation of drawings of Several types of Renaults and Peugeot car assembly robot

01/07/2016 07/16/2016 Mahdia-Tunisia

Maatalah Marble Company

Senior technician internship (End of study project)

- Maintenance and Repair of a marble block sawing machine.
- Realization of the technical file; Electrical cabinet;
 Hydraulic Solidworks, Maintenance by the Amdec tool.

Education (linkz)

2021

National Diploma of Engineer in Electromechanics (EUR-ACE CTI) Polytechnic Sousse

Sousse-Tunisia

2016

Applied license in mechanical engineering specialty (industrial maintenance)

ISET Mahdia

Mahdia-Tunisia

2013

Bachelor in Technical Sciences Ibn Sina Secondary School Mahdia-Tunisia

Certification (link)

- 1 x Solidworks expert
- 1 x Solid edge expert
- 8 x Solidworks Professional Sheet metal Drawings
- Molding Weldments Simulation Surfacing
 - Professional Arnox
- 3 x MSC cradle -CFD basics -SC / Tetra -SC / Flow
- 8 x master Cam 2d Mill 2020 3d Mill 2020 Lathe 2020 2d Mill 2019 3d Mill 2019 Lathe 2019
- Essential Principles of machining stem
- 2 x Siemens Nx -Essential
 - 1 x Catia -Essential
 - 1 x Ptc creo Parametric -Essential
 - 1 x Fusion 360 -Essential
 - 1 x Solidedge -Essential
 - 1 x on shape -Essential
 - 1 x Inventor -Essential
 - 1 x Auto CAD 3D -Essential

01/01/2015 02/10/2015 Mahdia-Tunisia

Zouila olive oil soap

2nd year technician internship

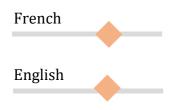
- ✓ Repair of an oil production line
- ✓ Repair of deferent types of pumps and motors.

Zouila olive oil soap

01/01/2014 02/10/2014 Tunis-Tunisia 1st year technician internship

- Repair and diagnostics of equipment.
- ✓ Production of the deferent types of soap.

LANGUAGES



Industrial projects (link?)

2018

Design of deferent molds and forming tools.

2018

Study and design of a hydraulic press.

2019

Study and design of a car engine mount

2020

Study and design of a plastic injection mold with 4 cavities for a mirror cage

Study and design of a Boeing 747 Simulation CFD airplane (Ansys, MSC cradle)

2021

Study design simulation and realization of an electric car

Activities & interests

2021

Training in CAD, CAM, FEM, CFD

- Participation in design events

2018

Robotics and design club

- Club Poly auto

Center of interest:

Robotics, travel, Sport, design, Automation, Exploration, embedding, blacksmith etc. ...

Skills

MECHANICAL

CAD:

Solidworks, Catia, Siemens Nx, Solidedge, Ptc creo, Auto CAD, Inventor

FAO:

Mastercam

Simulation:

Msc cradle (SC Tetra, flow, Stream), Adams Abacus, Ansys Workbench 2019

ELECTRIC

Electrical diagram, Cabinet installation, Q. Electro, matlab (simulink), Automation studio, Proteus8, Modelsim, Plic diagram, etc ...

Automatism

Tia portal (Ladder language, HMI, Servo motors) Virtual Commissioning with Siemens NX

Management Tools:

GP production management CMMS maintenance management

Maintenance tool:

Amdec, Pareto, ABC 20/80.

CND:

Penetrant penetration, radiography, ultrasound ...

Office:

Pack office, Prezzi, Internet, repair and technical knowledge on computers.

Programming:

VHDL, C++, Arduino, IOT

Functional skills

- Organized and dynamic, Rigor, Team spirit, Communication, Curiosity, openness
- Strong ability to adapt and manage stress