

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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📍 Mahdia, Tunisia

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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

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

SMM - Maintenance service

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

09/01/2016
05/30/2018
Tunisia

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

08/01/2017
11/30/2017
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.

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

Education (link [↗](#))

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.

01/01/2014
02/10/2014
Tunis-Tunisia

Zouila olive oil soap

1st year technician internship

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

LANGUAGES

French



English



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
- ✓ Study and design of a plastic injection mold with 4 cavities for a mirror cage
- 2020 ✓ 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