

SALIM BENHALIMA

Mechatronics engineer // Frontend engineer
JavaScript // HTML // CSS // React JS // SASS

+81 090-7049-8756

www.linkedin.com/in/salim-ben-halima-31012b18a

salimbenhalima95@gmail.com

Kita-Shinagawa, Shinagawa, Tokyo, Japan



SKILLS

Programming languages

JavaScript

HTML

CSS

React js

C / Python

Development environments

Git (Gitlab/Github)

VS code

MATLAB

Arduino IDE

Raspberry Pi

Eagle PCB

EDUCATION

Mechatronics Engineering Master's degree

National Engineering School of Sousse

09/2017 - 09/2020 Sousse, Tunisia

- Robotics / Embedded systems
- Structural and stress analysis / Mechanical design
- Computer Science
- Computational analysis / Finite element methods (FEM) / fluid mechanics

Pre-engineering Studies, Mathematics Physics

**Preparatory Institute for Engineering
Studies of Nabeul**

08/2014 - 06/2017 Nabeul, Tunisia

Baccalaureate Diploma with highest honours in Mathematics

Ali Bourguiba high school

09/2010 - 05/2014 Sousse, Tunisia

LANGUAGES

English (Fluent)

French (Fluent)

Japanese (N5)

Arabic (Native)

EXPERIENCE

Mechatronics engineer

Passiv Energie Japan Inc - パッシブエネルギー ジャパン株式会社

09/2020 - Ongoing Tokyo, Japan

- Create 3D designs and make assemblies of ventilation system components.
 - Generate 2D technical drawings and collaborated with suppliers to identify and resolve manufacturing problems (sheet metal parts or by plastic injection).
 - Design interior and exterior ventilation covers and optimize aerodynamic performances with CFD simulation.
 - Electrical and mechanical design of test jigs for an HVAC controller connected to a Wi-Fi label printer
- Keywords: Programming C , Onshape(CAD), Ansys Fluent (CFD), Fluid Dynamics, Thermodynamics, MSC Nastran, HVAC.

Freelancing as a frontend engineer

- Provide a satisfactory user experience with no issues, errors, or downtime. I create and optimize systems, play an active role in testing and troubleshooting, and resolve issues such as those related to accessibility and browser compatibility.
- Design and development of an E-commerce application to sell clothes and provide the storeowner an interface to manage products
- Convert Figma designs to high quality, responsive HTML, CSS, React,

Keywords: React js , JavaScript , HTML , CSS , firebase , responsive web design , babel

Graduation Internship

Passiv Energie Japan Inc - パッシブエネルギー ジャパン株式会社

03/2020 - 09/2020 Tokyo, Japan

- Developed a CFD model and enhanced the mechanical design of the ventilation system and heat recovery
- Optimised the heat recovery rate using Ansys Fluent.
- Simulated and optimized the Acoustic Treatment for Noise Mitigation.

Keywords: Onshape(CAD), Ansys Fluent (CFD), Fluid Dynamics, Thermodynamics, MSC Nastran, HVAC.

Engineer internship

Stunas Industries

07/2019 - 09/2019 Sousse, Tunisia

- Designed and built the final phase of the integrated model maintenance on Microsoft Dynamics AX.
- Designed a new plan for the preventive maintenance interventions to increase efficiency, reduce downtime, and decrease associated costs to forecast sales of spare parts, and its accessories for the upcoming month and determined the necessary strategic initiatives to be implemented.

Keywords: Microsoft Dynamics AX system, Microsoft excel, Maintenance, ERP

LEONI WIRING SYSTEMS TUNISIA Group

10/2018 - 02/2019 Sousse, Tunisia

- Studied, designed, and realised a line follower robotic trolley used to support the loads and to move them all along a production line.

Keywords: Catia v5, Abaqus, Structural and stress analysis, Material resistance, Arduino, Programming C, Robotic motion,

PROJECTS

- 3D printer (CNC Machin) Project** (Catia v5, Arduino, Programming C).
- Weather Station Project** (Onshape, Python, Raspberry Pi, metrological sensors).
- Remote controlled and autonomous robot Project** (Onshape, Python, Raspberry Pi).
- Robotic Arm on solidWorks**
- Engine Control Unit operation study** (SolidWorks, MATLAB).