# **BASSEM DAHROUG**

#### PhD, Mechatronics Engineer

https://bdahroug.github.io/

@ bdahroug@gmx.com

Toulouse, France

### **EXPERIENCE**

### Robotics Engineer - Control & Mechatronics

#### **ROVIAL Space**

**i** 03/2023 - present

Toulouse, France

Participation in the development of unprecedented Robotics and AI solutions for Space Applications

- contribute to the design and development of ROVIAL's robots hardware and control:
- · contribute in the printing, integration, assembly and manufacturing of the robotic module and components, and in the experimental proof of concept prototype.

#### **Mechatronics Engineer**

#### **AMAROB Technologies**

**i** 06/2021 - 11/2022

Besançon, France

Participation in different innovative projects

- design, simulation, manufacturing, and programming of mechatronic devices, in particular, the micro-robotic systems dedicated to intracorporeal laser surgery that AMAROB proposes;
- validation of the devices developed with AMAROB's collaborators, including partner hospitals and AMAROB's customers.

## **EDUCATION**

#### Ph.D. in Engineering Sciences

**UBFC (Université Bourgange Franche-Comté)** 

**1**1/2014 - 02/2018

Besancon, France

Dissertation: Minimally Invasive Surgery in the Middle Ear: a guided micro-robotic system to efficiently remove cholesteatoma.

### Joint M.Sc. in Mechatronics and Micro-Mechatronics **Systems**

ENSMM (Ecole National Supérieur de Mécanique et des Microtechnique) and EPI (Escuela Politécnica de Ingeniería de Gíjon)

**=** 09/2012 - 09/2014

Besançon, France and Gíjon, Spain

Total score 15 out of 20 at ENSMM, and 7 out of 10 at EPI Master thesis: Design, modelling and control of a contactless modular conveyor.

#### B.Sc. in Mechanical Engineering

AAST, College of Engineering Studies and Technology, Mechantronics Depart.

**1** 09/2011 - 09/2006

Alexandria, Egypt

Graduation project: Mobile robot control for parking manoeuvre.

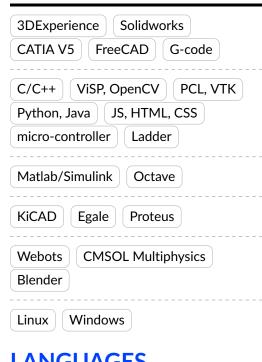
# **SKILLS & KNOW-HOW**

Mechatronic design Robotics Automatic control Scientific programming Mechanics **Electronics** Robotic experimentation Analysis, synthesis and solving problems Oral and writing communication Organization, rigor

# COMPUTER SKILLS

and autonomy

**Project Collaboration** 



# .ANGUAGES





