

# BIECHE ADÉAS MATYS

Engineering Student in Mechatronics & Robotics

- Minor in Security & Defense

4 months internship starting April 2024

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PORTFOLIO



[adeasmbieche.fr](http://adeasmbieche.fr)

## SKILLS

### Programming

Experienced

Python | C

Familiar

C++ | C# | Java | Fortran

### Tools/Applications

Matlab | CATIA V5 | SolidWorks

Visual Studio | STM32CubeIDE

Pack Office | Photoshop

### Linguistics

English (C1) - oral and written fluency

German (C1) - oral and written fluency

Chinese (A1-A2) - basic notions

French - Mother tongue

## EDUCATION

### SeaTech Toulon, School of Engineering — 2023 - 2<sup>nd</sup> Year

Student

- Functional analysis of systems
- Sensors, vision, actuators, instrumentation, cyberphysics
- Digital engineering, programming and object-oriented mechatronic simulation
- CAD, manufacturing
- Smart factory, industrial production management
- Land & Underwater robotics
- Electronics Networks, embedded computing
- Human Science, Economics, Management, Accounting

### Intensive preparation course for Elite Schools — 2020 - 2023

Training in Mathematics, Physics, Engineering Sciences & Computer Science

### Scientific Baccalaureate & Abitur — 2017-2020

With distinction | Abitur 1.4

## REFERENCES

References available upon request

## EXPERIENCE

### ROBOT CLUB TOULON | Robotics Engineering | 2023 - Today

- [Robot Club of Toulon](#) from Toulon University
- Participation at the **Robocup 2024**
- Currently focused on enhancing the **Goalkeeper robot's arm** precision and refining its **autonomous gameplay** capabilities
- Worked on **Lidar** data processing algorithm resulting in the filtering of **dynamic objects** in fast and complex environments.
- Attempted **SLAM** implementation, creating a program to evaluate ICP approaches for potential Lidar-based mapping enhancements
- Enrolled in **Aqua.Bot 2024**, developing mission systems for **autonomous marine drones**
- Conducted **robot testing**, **proposing** and **implementing** innovative solutions
- Applied **hands-on technical skills** in wiring, assembly, and laser cutting for prototypes



### AEROTECH | Mechatronics Engineer | 2023 - 2024

- Designed and constructed a **Tilt-Rotor VTOL** aircraft for the **DASSAULT UAV CHALLENGE 2023/2024**
- Led the **mechanical design** and **embedded electronics integration**
- Implemented **AI-based object recognition system** using **Jetson Nano**, to enhance the **UAV's autonomous navigation** and mission capabilities
- Utilized **CATIA V5** for precise 3D modeling



### BDE CPGE LLL (non-profitmaking organization) | President | 2022- 2023

- **Collaborated** closely with administration and **team members** to support decision-making processes within a student organization
- Orchestrated successful **fundraising initiatives** and **events** (Telethon, group outings, integration evening, sale of goodies, buffet, etc.)
- Managed **budgets** while ensuring clear communication with stakeholders.

### York Lubricants | Intern | 2024

- Provision of **engineering skills** and **knowledge**
- Discovery of a production line. Reflection and work on its **automation**



### McDonald's | Team Leader & Trainer | 2023 - Today

- Recognized as **Employee of the Month** multiple times
- **Collaborated with team members** in a fast-paced kitchen during peak hours
- Demonstrated speed, efficiency, and a strong sense of responsibility in all tasks

### Others | Multiple short experiences | Since 2018

- **Nasa Open Science** certificate
- Student **ambassador** & class **representative**
- **Internship** in the **French Air Force** : Discovery of military professions and the **aeronautics** sector
- Exhibitor for **Papangue ULM** during the BA181 open days in honor of Roland Garros

