



# BIECHE ADÉAS MATYS

Engineering Student in Mechatronics & Robotics

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## SKILLS

### Programming

Experienced

Python | C

Familiar

C++ | C# | 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

## EDUCATION

### SeaTech Toulon Engineering

Elite School — 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 highest honours | Abitur 1.4

## ACHIEVEMENTS

2024 CROUS Short Story second place

RoboCup 2024 Fifth Place in Middle Size League

Dassault UAV Challenge 2024 Fifth Place

## EXPERIENCE

ROBOT CLUB TOULON | [Active Member](#) | 2023 - Today

- [Robot Club of Toulon](#) from Toulon University
- Participation at the **Robocup 2024**
- Worked on the **SLAM** (simultaneous localization and mapping) using different **ICP** (Iterative closing points) approaches
- **Testing** robots. **Experimenting** and proposing **ideas**
- Wiring, Assembly, Laser Cutting



AEROTECH | [Mechatronics Engineer](#) | 2023 - Today

- Building a **Tilt-Rotor VTOL**
- **DASSAULT UAV CHALLENGE 2023/2024**
- **Mechanics & Embedded Electronics**
- **AI Recognition** (Jetson Nano / JeVois)
- **CAD** using CATIA V5



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

- Role in close **collaboration** with the administration, **teamwork**, **decision-making**
- **Events** (Telethon, group outings, integration evening, sale of goodies, buffet, etc.) **budget management**, **communication**
- Sponsorship of a child via the Aïna enfance & avenir association: **Support** and monitoring of the child

York Lubricants | [Production Worker Intern](#) | 2024

- Filling and packaging of oils/liquids and other products with production machines in compliance with safety instructions
- Provision of **engineering skills** and **knowledge**
- Discovery of a production line. Reflection and work on its **automation**



McDonald's | [Area Manager](#) | 2023 - Today

- **Employee of the month**
- **Teamwork** in the kitchen or at the counter during rush hours, stimulating environment. Cleaning in the dining room or in the sink
- **Speed, efficiency, seriousness, responsibility**
- Maintaining workplace hygiene

Others | [Mul](#) | Since 2018

- Internship in the **Air Force**, at Air Detachment 181 : Discovery of military professions and the **aeronautics** sector
- Exhibitor for **Papangue ULM** during the BA181 open days in honor of Roland Garros
- Class Representative

