

MARCHAL Gauthier

Generalist Engineering student - Structure and materials

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Engineering student with a passion for innovation and problems, I am looking for a minimum 16-week placement to start in September and a maximum 26-week placement between 1 July 2024 and 17 January 2025.

During this internship, I'm looking to **expand my industrial experience and my knowledge of the company** by taking part in a **technical study, analysis, calculation, modelling or design assignments**.

WORK EXPERIENCE

FEBRUARY 2018 – INTERNSHIP DISCOVERY – SOFTBANK ROBOTICS

- Over the course of a week, I discovered the different business sectors of a leading international company in the field of humanoid robotics.

JULY 2022 – TRAINEE WORKER – DEGOISEY

- Machining aluminium parts on milling machines
- Standardised packaging, clear and precise labelling, logical stock organisation
- Carrying out a series of finishing operations on the parts, including checking their condition, polishing, filing, engraving and sanding, within the framework of established quality standards.

ACADEMIC PROJECTS

SYSTEM DESIGN PROJECT – 2023

- Evaluation of stresses and deformations** under various loads and operating conditions.
- Utilization of Amesim to **model the hydraulic system** of the robotic arm.
- Planning and organization of tasks** related to the design of the robotic arm.

DATABASE PROJECT – 2023

- Designing and architecting an SQL database** tailored to the specific needs and operations of Darty shops.
- Developing data models** to represent the relationships and entities within the Darty shop environment.
- Conducting thorough testing** of the SQL database to identify and resolve any errors or issues.

MECATRONIC PROJECT – 2023

Development of a robot controlled by an Arduino board and black line sensors, with the aim of completing a marked circuit in the shortest possible time. The results were remarkable, with my team **beating the previous record by completing a lap in 23 seconds**.

IT SKILLS

EXCEL, ACCESS, MYSQL	• INTERMEDIATE
WORD, POWERPOINT	• ADVANCED
MATLAB, PYTHON	• INTERMEDIATE
CATIA V5	• INTERMEDIATE

LANGUAGES

- French : Native
- English : B2-C1
- Spanish : B1

SKILLS

ORGANIZATIONAL

- Scheduling projects with deadlines as a group leader
- Delegating responsibilities to others and monitoring the effects of that delegation
- Managing internal conflicts in a group
- Project management skills

TECHNICAL

- Investigating and finding resources to understand a situation or a problem
- Programming a sequence of operations or actions to solve a problem

ENGAGED

- Demonstrated unwavering commitment to every task assigned, always guaranteeing top-quality results.

EDUCATION

2026 - EPF ENGINEERING SCHOOL

3rd year | 2021 - 2026 | Troyes, France

2021 - JEAN MONNET HIGH SCHOOL

Secondary School Diploma (Baccalauréat) - Mathematics & Physics

VOLUNTEERING

2023/2024 – HEAD OF COMMUNICATIONS

In charge of the school sports association's communication on the various social networks, organising meetings with companies to draw up communication plans

2023/2024 – MODEL MAKING MANAGER

In charge of building model aircraft at the school for cultural performances for the school association A.D.E.

2023/2024 – HEAD OF MUSIC

Responsible for recording, mixing and mastering tracks produced by the school's students within the association.