

Nathan Ochem

Seeking a Mechanical Engineering Internship

Profile

I am a Mechanical Engineering student at Polytech Lille in my final year. With a strong interest in mechanical design, I am eager to apply my skills and contribute fully to the industrial sector.

Driving licences B and A2.

Skills

Mechanical design:

3DEXpience (CATIA V6), Creo Parametrics, SolidWorks.

Simulation and analysis:

ANSYS, finite element analysis (FEA), solid & fluid mechanics.

Project management:

planning, coordination, teamwork.

Digital tools:

Office 365, Python, $\LaTeX$, HTML.

Technical communication:

English & French.

Languages

French: Native

English: C1 (TOEIC 950)

Contact



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Education

2023
to
2026

Mechanical Engineering Specialisation

Polytech Lille (Graduate School of Engineering) ·

3 projects:

- Design and sizing of an automatic ground clearance adjustment system for an agricultural vehicle;
- Design and sizing of a rugby scrum training system;
- Design, sizing, and manufacturing of a prosthesis for post-cubital amputees.

Skills developed: CATIA V6, ANSYS, mechanical sizing, vibrations and structural dynamics, heat transfer, manufacturing processes, project management.

2021
to
2023

Integrated Preparatory Programme

Polytech Orléans ·

2 group projects:

- Development of a robot moving on a chequerboard;
- Analysis of a mechanical system's operation.

Skills developed: applied physics, mathematics and electronics, programming, numerical simulation (Creo Parametrics), project management.

2020
to
2021

Baccalauréat (equivalent A-levels)

Les Frangs-Bourgeois La Salle ·

2 group projects:

- Modification of an electric scooter's speed;
- Creation of a line-following robot.

Skills developed: basics in electricity and mechanics, introduction to numerical simulation (SolidWorks), teamwork.

Experience

Jun 2025
to
Aug 2025

Engineering Assistant (Internship)

Automobiles Gillet · Gembloux, Belgium

- Structured regulatory tests for homologation.
- Drafted technical datasheets and reports for authorities.

Skills developed: EU regulations, technical writing, test management, compliance.

Jun 2024
to
Aug 2024

Delivery Operator

Elis · Le Bourget, France

- Delivered professional clothing (B2B).
- Managed routes and claims independently.
- Adapted to demanding client needs.

Skills developed: logistics, customer management, operational autonomy.

2022
2023

Crew Member

McDonald's · Paris Austerlitz, France

- Handled orders, cashiering, and customer service.
- Maintained efficiency in a fast-paced environment.

Skills developed: working under pressure, speed, client service, versatility.