



Alexandre
Lengart

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[@Alexandre Lengart](#)



Mechanical Engineer

Education :

2025-2028: NTNU, department of marine technology (PhD).

Study of the impact of WAPS (Wind Assisted Propulsion System) on ship's manoeuvrability

2020-2025: INSA Lyon, mechanical engineering (M. Eng).

EURINSA Section: base formation and language classes

Fluid mechanics, vibrations & acoustic analysis, design and processes

Project manager: prototype design (6 pers. running over 1 semester)

Academic exchange with the University of Strathclyde: department of Naval Architecture, Ocean & Marine Engineering

Soft skills: project management, international opening, technical knowledge, literature search

2014-2018: Young Firefighter education

Initial training to be firefighter volunteer.

Soft skills: practical thinking, seriousness et teamworking.

Experiences:

July 2024 – January 2025: 6 months engineering internship at the CEA CESTA.

Dynamic simulation of shock absorbing device for nuclear container.

2023- 2025: Engineering Student Expert for the CTI (Commission for the Engineer Title).

Quality audition of the french engineering schools giving them the accreditation to deliver the diploma.

Soft skills: adaptation, versatility et recognition.

2023-2025: Student representative at the INSA Lyon

Student representative at the Study Council and Department Council

- Bringing improvements to the school's procedures and study curriculum.

Member of the working group on the module evaluations procedure

- Proposing a complement to the last procedure in development.

Work on the mechanical engineering curriculum reform

- Surveys, debates, etc.

Soft skills: communication, initiative, influence.

2022-2023: Tutoring of students in physics, mathematics and computer science.

Soft skills: teaching and listening.

2021-2022: Treasurer of the French-German club of the INSA Lyon.

Finance management for a small club (7500€/year).

Restoring the club after Covid-19.

Organisation of an academic trip to Germany

Soft skills: project management, accountant.

Summer 2021-2023: student jobs in various companies.

Languages:

French: native language

English: B2 - C1 Erasmus exchange at the University of Strathclyde, Glasgow, UK

German: B1 - B2 study trip and interviews

Digital tools and skills :

CAD: solidedge, Catia, GrabCAD, 3DExperience

Simulation: Abaqus, Comsol Multiphysics, Modelica, STAR-CCM+

Programming: Java, Matlab, Arduino, Python

Others: MS Office

Interests :

- Reading
- Sailing
- Travelling
- Dansing