

Hugo Louge

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Education

Ecole des Mines Saint-Etienne *Mines Engineer - class of 2023* Sept 2023 - Today

General engineering Master's degree in Mathematics, Physics, Computer Science and Management

- Majors: Mechanical Engineering and Computer Science
- Minors: Big Data and Design
- Toolboxes: Network, Advanced Fluid Mechanics, Web Dev., International Finance

University of California San Diego *Exchange Student* Sept 2024 - January 2025

- Coursework: Mechanical Engineering, Fluid Mechanics (3.9/4.0 GPA)

Lycée Michel Montaigne, Bordeaux *Great Schools preparatory class* Sept 2021 - June 2023

Intensive foundation degree for great engineering school national entree exams

- 1st Year: PCSI - Physics, Chemistry, Engineering — 2nd Year: PC* - Physics, Chemistry, Star class

Experience

Seoul National University Seoul, South Korea
Intern June 2025 - Aug 2025

Research intern at the Deep Learning Lab, supervised by Professor Tae-Wan Kim. Bayesian Data processing and Kalman Filter project. Research on time series with python deep learning frameworks (Pytorch, Cuda).

CNIM Systèmes industriels La Seyne-sur-mer, France
Worker Intern Jan 2024 - Feb 2025

Worker Intern in a motorized floating bridge factory

- Dismantling, repairing and mounting former French military floating bridges

Projects

Industrial Project – Mines Saint-Étienne x CONSTELLR Saint-Étienne, France
Engineering Assistant Sep 2025 - Feb 2026

Industrial Project with the startup Constellr, definition of a Product assurance for the next constellation of satellites. Validation of ESA ECSS requirements and writing of PA requirement for next IR Imaging satellite.

PRICE Project – Mines Saint-Étienne x Université Jean Monnet Saint-Étienne, France
Project Lead Feb 2025 - June 2025

Led an interdisciplinary innovation and entrepreneurship project on the Mines-UJM shared computing research cluster (Centraure + LAHC).

- Assessed the current high-performance computing infrastructure. Proposed a sustainable upgrade including a climate-friendly cooling system.

Forum Perspectives Lyon, France
Corporate Relations Manager June 2024 - June 2025

Business forum organized jointly by Mines Saint-Étienne and Centrale Lyon.

- Reached out to companies and invited them to participate in the event and coordinated outreach efforts among fellow members.

Skills

Programming: Python, C, Java, C#, SQL, JavaScript, PHP, HTML, R, Matlab.

Hobbies: Scuba diving (N3 FFSSM, RIFAP, Nitrox), Handball (10 years).

Languages: French (native), English (Fluent), German

Certificates: PSC1, Driver license, TOEIC (965/990), Cambridge Ket (148/150).