

Hugo Louge

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Education

Ecole des Mines Saint-Etienne <i>Mines Engineer - class of 2023</i>	<i>Sept 2023 - Today</i>
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 <i>Exchange Student</i>	<i>Sept 2024 - January 2025</i>
◦ Coursework: Mechanical Engineering, Fluid Mechanics (3.9/4.0 GPA)	
Lycée Michel Montaigne, Bordeaux <i>Great Schools preparatory class</i>	<i>Sept 2021 - June 2023</i>
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	<i>Seoul, South Korea</i>
<i>Intern</i>	<i>June 2025 – Aug 2025</i>
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	<i>La Seyne-sur-mer, France</i>
<i>Worker Intern</i>	<i>Jan 2024 – Feb 2025</i>
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	<i>Saint-Étienne, France</i>
<i>Engineering Assistant</i>	<i>Sep 2025 – Feb 2026</i>
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	<i>Saint-Étienne, France</i>
<i>Project Lead</i>	<i>Feb 2025 – June 2025</i>
Led an interdisciplinary innovation and entrepreneurship project on the Mines-UJM shared computing research cluster (Centaur + LAHC).	
◦ Assessed the current high-performance computing infrastructure. Proposed a sustainable upgrade including a climate-friendly cooling system.	
Forum Perspectives	<i>Lyon, France</i>
<i>Corporate Relations Manager</i>	<i>June 2024 – June 2025</i>
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:** Scubadiving (N3 FFSSM, RIFAP, Nitrox), Handball (10 years).
- Languages:** French (native), English (Fluent), German
- Certificates:** PSC1, Driver license, TOEIC (965/990), Cambridge Ket (148/150).