Samuel Ogulluk

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CAREER OBJECTIVE

Graduate-level student seeking an internship in embedded systems and robotics from May to July 2026.

EDUCATION

- **École Normale Supérieure Paris-Saclay, Paris** **2025-Present**

  Master en sciences pour l'ingénieur électronique et numérique
  ***MSc** in Electronic and Digital Engineering*

  Department of Electronic and Digital Engineering - Student civil servant
  The key courses included: Microprocessors architecture, Computer science, Signal & Image Processing, Physics, AI.

- **Sorbonne Université, Paris** **2025-Present**

  Licence de physique fondamentale
  ***BSc** in Theoretical Physics* - The key courses included: Quantum Physics, Complex Analysis, Mechanics of Materials.

- **École Normale Supérieure de Rennes, Rennes** **2024-2025**

  Licence en ingénierie mécanique, Mention très bien
  ***BSc** in Mechanical Engineering with the highest honours*

  Licence en ingénierie électronique, Mention bien
  ***BSc** in Electrical Engineering with high honours*

  Department of Mechatronics - Student civil servant
  The key courses included : Continuum Mechanics, Rigid-Body Mechanics, Engineering Drawing, 3D CAD, Analog Electronics.

- **Lycée Hoche, Versailles** **2022-2024**

  Classe préparatoire aux grandes écoles d'ingénieurs
  Preparatory class for France's leading engineering Universities -
  Intensive generalist curriculum in Mathematics and Chemistry with a Major in Physics and Engineering

- **Lycée Notre-Dame, Boulogne-Billancourt** **2021-2022**

  Baccalauréat Scientifique, Mention très bien, spécialité en Mathématiques et en Physique
  Equivalent of A-levels with highest honours, majoring in Mathematics and Physics.

WORK EXPERIENCE

- **CERN, Meyrin, Switzerland — Internship** **June–July 2025**

  Worked on the FCC (Future Circular Collider) project in the BEAMS department.

  Developed and benchmarked state-of-the-art robotic pose estimation algorithms, assembled a dedicated testbed, and ensured robustness under critical operating conditions. Attended Summer Student lectures on Particle Physics, Experimental Physics and Computer Sciences.

- **Development of a C Framework** **2025–Present**

  Creator of **Otternet**, a C framework (Python API in progress) for Machine Learning and Data Science. Provides neural networks, training routines, and modular tools for easy and efficient computation.

LANGUAGES & TECHNICAL SKILLS

I am a native **French** speaker, fully proficient in **English** (C1 IELTS), and I have basic knowledge of **Spanish**

I am experienced in **electronic board design** (KiCad, PSpice) and signal processing, proficient in **CAD** (SolidWorks, Autodesk 360) and **MATLAB**, skilled in 3D printing, laser engraving, and **COMSOL simulations**, and knowledgeable in **machine learning**, **computer vision**, high-performance computing, as well as serial and parallel **robotics**.

Additionally, I am proficient in **Python** (NumPy, JAX ,TensorFlow, OpenCV, Keras), experienced with LaTeXand ARM assembly, skilled in **C, C++, and C#**, familiar with **web development** (HTML, CSS), and comfortable using **Bash and Linux** environments.

PERSONAL INTERESTS

I have practiced **music** for over 10 years (classical guitar in a conservatory, piano, electric guitar, member of the ENS Rennes rock band), which strengthened my creativity and teamwork, while sports such as **cycling and judo** (brown belt) built perseverance. Finally, my **passion for aeronautics and space** is reflected in my Aeronautical Initiation Certificate (BIA, full marks), complemented by a strong interest in science and technology.

REFERENCES

- **Professional reference : Jean-Paul Burnet** - internship supervisor at CERN

  jean-paul.burnet@cern.ch

- **Academic reference : Jérôme Saint-Martin** - Head of the Department of Electronic and Digital Engineering at ENS Paris-Saclay

  jerome.saint-martin@ens-paris-saclay.fr