Bastien Enjolras

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Introduction

I am a second-year engineering student at Mines Saint-Étienne, specializing in systems, microelectronics, and computer engineering. I am looking for a 16 to 20-week internship starting April 1, 2027, with a strong interest in Robotics and Electronics.

Education

École des Mines de Saint-Étienne, ISMIN pathway - Gardanne, France *2025 - 2028*
M.Sc. in Microelectronics and Computer Engineering.

Lycée la Martinière Monplaisir, preparatory class PTSI / PT* - Lyon, France *2023 - 2025*
Intensive program in industrial science, physics and mathematics preparing for French engineering school entrance exams.

Lycée de la Côtière, French Baccalaureate - La Boisse, France *2020 - 2023*
Graduated with high honors, specializing in mathematics, industrial science, physics and chemistry.

Experience

Management assistant Enedis – Rillieux-la-Pape, France *January 2026*

- Modeled 3D objets in order to help technicians to work on site.
- Created tools to optimize the functionning of the operation base.

Video Manager, Lyon Convention Center – Lyon, France *July 2024*

- Installed audio and video equipment in meeting rooms.
- Assisted an international client and helped them resolve video and audio issues during conferences.

Key Skills

- **Tools:** C/C++, Python, SystemVerilog, SQL, LaTeX, Linux, MATLAB, Cadence Virtuoso, Fusion 360, SolidWorks, COMSOL, Microsoft Office.
- **Languages:** Native French speaker, proficient in English (B2), competent in German (B1).
- **Other skills:** Soldering, electronic prototyping, technical drawing, ISO standards, statistics.

Projects

Edu4Chip Summer School - 10 MHz Ring Oscillator *August 2026*

In an international team of six, designed a full-custom 180 nm CMOS ring oscillator (NAND enable + inverter chain) on Cadence Virtuoso, targeting 10 MHz $\pm$5% with minimal area. Sized the transistors from a propagation-delay model and parametric sweeps, drew a DRC/LVS-clean layout and reached 10.23 MHz in simulation.

Preparatory Class Project - Electric Finger Prosthesis *2024 - 2025*

Designed and prototyped a 3D-printed articulated finger as part of a prosthesis. A stepper motor, controlled by an Arduino, moves the finger by winding a fishing line around a pulley.

Industrial Science Project - Traveling Rail *2023*

Sized components, modeled the different parts of the robot in 3D, conducted mechanical studies on CAD software, and programmed an Arduino system to move a 1 kg camera along an aluminum rail.

Volunteering

Treasurer - Robotics and Electronics Association of Mines (AREM) *Feb 2026 - Present*

- Manage the association's budget and accounting (Excel); took part in the French Robotics Cup.
- Organize school events (hackathon, science outreach festival).

Multimedia Production Manager - Arts Council (Miprod) *Feb 2026 - Present*

- Direct photo and video shoots covering student associations and major campus events.
- Retouch photos on Adobe Lightroom and produce promotional videos on DaVinci Resolve.

Video Editor and Staff - Engineering Companies Forum (FEI) *Nov 2025 - Present*

- Edit the association's video content on DaVinci Resolve.
- On forum day, set up the rooms, accompanied the partner companies and ran the photo booth.