

# ARTHUR DORADOUX

20 years old | French | +33 6 27 88 34 83 | arthur.doradoux@etu.emse.fr | linkedin.com/in/arthur-doradoux

## PROFILE STATEMENT

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As a versatile and meticulous French engineering student, I am passionate about tackling technological challenges. With a strong background in Microelectronics, Computer Science, and team and project leadership, I thrive in collaborative environments that enhance my analytical thinking, problem-solving skills, and adaptability. I am seeking a 4+ month internship starting in April 2026, where I can actively contribute to innovative hardware and product development.

## EDUCATION

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**Mines Saint-Etienne Engineering School - Gardanne, FR** Sep 2024 – Jul 2027

Master's Degree in Microelectronics and Computer Systems Engineering (ISMIN Program)

- **Electives:** AI for Production, FPGA and Security, Entrepreneurship
- Robotics hackathon winner — programmed a robot using STM32 microcontroller and C
- Core curriculum: Microcontrollers, Digital and Analog Electronics, Embedded Systems, Signal Processing

**Intensive Courses for Selective Engineering Schools - Lycée Pothier - Orléans, FR** Sep 2022 – Jul 2024

Mathematics, Physics, Computer Science

**Baccalauréat with Honors - Lycée Notre-Dame des Aydes - Blois, FR** Sep 2019 – Jul 2022

Mathematics, Physics, Chemistry, Geopolitics, Advanced Mathematics option, European Track

## WORK EXPERIENCE

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**Hardware Systems Engineer Intern** Jan 2025 – Feb 2025

*PHINIA Delphi France*

- Configured and tested hardware/software for the first hydrogen injection using a 24V ECU platform (Infineon Aurix TC3XX, STMicroelectronics ASICs)
- Performed thermal characterization using CAN communication and modified ECU for vehicle testing

**Private Tutor** | 100+ hours of math tutoring, 80+ hours of academic support Sep 2019 – Jun 2023

## PROJECTS

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**Autonomous Robot Programming** | STM32 microcontroller-based robot Feb 2025 – Jun 2025

**Capacitive Sensor-Controlled Fan Prototype** | Hardware prototyping project Feb 2025 – Jun 2025

**RISC-V Processor Architecture Project** | Design and simulation using Logisim-Evolution Feb 2025 – Apr 2025

6+ additional projects — ASCON-128 encryption, C-based game client, Disability awareness program, ...

## STUDENT INVOLVEMENT

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**President – MINITEL (Gaming, IT and Network Student Association)** Mar 2025 – Present

- Manage campus Wi-Fi for 150+ student apartments and organize LAN events with Riot Games and Red Bull
- Lead and motivate a 16-member team

**Class Representative 1st and 2nd Year and Communication Ambassador** Sep 2024 – Present

5+ additional roles - Career Fair, Harassment prevention, Merchandise and Uniform Lead (Student Union), ...

## SKILLS

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**Programming:** C, C++, Python, SystemVerilog, MATLAB, Rust, OCaml, JavaScript, HTML, CSS

**Hardware & Tools:** STM32CubeIDE, Arduino, KiCad, Vector CANalyzer, Prototyping, Soldering, Inventor

**Software & Platforms:** Git, Linux, LaTeX, Typst, Adobe Creative Suite, Microsoft 365

**Soft Skills:** Team leadership, project management, budget management (€25k+), problem-solving, event organization

**Languages:** French (Native), English (C1), German (B1)

**Certifications:** TOEFL (C1), Cambridge (C1), HandiManagement Label, Judo Referee Training

**Interests:** International news, combat sports, motorsports, game programming, technology, innovation, esports, entrepreneurship, travel (USA, Egypt, Europe, ...), 3D printing