

ARTHUR DORADOUX

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

PROFILE STATEMENT

Versatile and meticulous French engineering student, 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. Seeking a 4+ month internship from April 2026, where I can actively contribute to innovative hardware and product development.

EDUCATION

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
- Relevant courses: 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

Hardware Systems Engineering Intern Jan 2025 - Feb 2025

PHINIA Delphi France

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

Private Tutor | 100h+ math tutoring, 80h+ academic support for 7th to 12th grade students Sep 2019 - Jun 2023

PROJECTS

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

Capacitive Sensor-Controlled Fan Prototype | Hardware & Software prototyping project Feb 2025 - Jun 2025

RISC-V Processor Architecture Project | Design and simulation in SystemVerilog Feb 2025 - Apr 2025

6+ additional projects - ASCON-128 encryption, IoT project, C-based game client, portfolio website, ...

STUDENT INVOLVEMENT

President - MINITEL - Gaming, IT and Network Student Association Mar 2025 - Present

- Managing campus Wi-Fi for 150+ student apartments and organize LAN events with Riot Games and Red Bull
- Leading and motivating 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 Manager (Student Union), ...

SKILLS

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 (A2)

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 & modeling