

# ARTHUR DORADOUX

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## PROFILE STATEMENT

As a versatile and meticulous 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 bring out 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

**Mines Saint-Etienne Engineering School** Sep 2024 - Present  
Master's Degree in Microelectronics and Computer Systems Engineering (ISMIN Program)

- **Electives:** AI for Production, Cleanroom Fabrication (ECG circuit design & LED matrix manufacturing)
- Robotics hackathon winner - programmed a robot using STM32 microcontroller and C
- Core curriculum: Microcontrollers, Digital and Analog Electronics, Embedded Systems, Signal Processing

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

Mathematics, Physics, Computer Science

**Baccalaureat with Honors, European Track** Sep 2019 - Jul 2022  
*Lycée Notre-Dame des Aydes, Blois, France*

Mathematics, Physics, Chemistry, Geopolitics with advanced mathematics option

## WORK EXPERIENCE

**Hardware System Engineer Intern** Jan 2025 - Feb 2025  
*PHINIA DELPHI FRANCE*

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

**Private Tutor** | 100+ hours math tutoring, 80+ hours academic support Sep 2019 - Present

## PROJECTS

**State.io Game** | Client-server - developed in C - multithreading and Ncurses Feb 2025 - Apr 2025

**ASCON128 Encryption Implementation** | Cryptographic algorithm implementation Feb 2025 - May 2025

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

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

**Handi'Mines - Disability Awareness Event** | Interactive stands and awareness video Feb 2025 - Jun 2025

**Velisud - Entrep' Entrepreneurship Program** | Electrically assisted vehicle concept Oct 2024 - Mar 2025

**Blackjack Optimization** | Python simulation with strategic modeling Jan 2023 - Jul 2024

## STUDENT INVOLVEMENT

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

- Managed campus Wi-Fi for 150+ student apartments and organized LAN events with Riot Games and Red Bull
- Managed and motivated a 16-member team

**Communication Ambassador - Mines Saint-Etienne** | Communication materials creation Jan 2025 - Present

**Class Representative - 1st and 2nd Year** | Student-administration liaison Sep 2024 - Present

**HVSSD Prevention Pole** | Training on harassment and discrimination prevention Mar 2025 - Present

**Logistics pole member - FEI Engineering Career Fair** | Event logistics Apr 2025 - Present

**Merchandise Lead - Student Union** | Uniforms and merch organization and distribution Apr 2024 - Present

**Student Bar and Cafe - COMIF** | Daily ser for students Mar 2025 - Present

**Alumni Network Representative** | Alumni relations Lifelong role

## 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 (10k+€), problem-solving, cross-functional collaboration, 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, technological innovations, esport, entrepreneurship, management