

# ARTHUR DORADOUX

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## 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

<b>Mines Saint-Etienne Engineering School - Gardanne, FR</b> Master's Degree in Microelectronics and Computer Systems Engineering (ISMIN Program) <ul style="list-style-type: none"><li>• <b>Electives:</b> AI for Production, FPGA and Security, Entrepreneurship</li><li>• Robotics hackathon winner - programmed a robot using STM32 microcontroller and C</li><li>• Relevant courses: Microcontrollers, Digital and Analog Electronics, Embedded Systems, Signal Processing</li></ul>	Sep 2024 - Jul 2027
<b>Intensive Courses for Selective Engineering Schools - Lycée Pothier - Orléans, FR</b> Mathematics, Physics, Computer Science	Sep 2022 - Jul 2024
<b>Baccalauréat with Honors - Lycée Notre-Dame des Aydes - Blois, FR</b> Mathematics, Physics, Chemistry, Geopolitics, Advanced Mathematics option, European Track	Sep 2019 - Jul 2022

## WORK EXPERIENCE

<b>Hardware Systems Engineering Intern</b> <i>PHINIA Delphi France</i> <ul style="list-style-type: none"><li>• Configured and tested hardware/software for the first hydrogen injection using a 24V Electronic Control Unit (ECU) platform (Infineon Aurix TC3XX, STMicroelectronics ASICs)</li><li>• Performed thermal characterization using CAN communication and modified ECU for vehicle testing</li></ul>	Jan 2025 - Feb 2025
<b>Private Tutor</b>   100h+ math tutoring, 80h+ academic support for 7th to 12th grade students	Sep 2019 - Jun 2023

## PROJECTS

<b>Autonomous Robot Programming</b>   STM32 microcontroller-based robot	Feb 2025 - Jun 2025
<b>Capacitive Sensor-Controlled Fan Prototype</b>   Hardware & Software prototyping project	Feb 2025 - Jun 2025
<b>RISC-V Processor Architecture Project</b>   Design and simulation using logisim-evolution	Feb 2025 - Apr 2025
<b>6+ additional projects</b> - ASCON-128 encryption, C-based game client, Disability awareness program, portfolio website, ...	

## STUDENT INVOLVEMENT

<b>President - MINITEL - Gaming, IT and Network Student Association</b> <ul style="list-style-type: none"><li>• Managing campus Wi-Fi for 150+ student apartments and organize LAN events with Riot Games and Red Bull</li><li>• Leading and motivating a 16-member team</li></ul>	Mar 2025 - Present
<b>Class Representative 1st and 2nd Year and Communication Ambassador</b>	Sep 2024 - Present
<b>5+ additional roles</b> - Career Fair, Harassment prevention, Merchandise and Uniform Manager (Student Union), ...	

## SKILLS

<b>Programming:</b> C, C++, Python, SystemVerilog, MATLAB, Rust, OCaml, JavaScript, HTML, CSS
<b>Hardware &amp; Tools:</b> STM32CubeIDE, Arduino, KiCad, Vector CANalyzer, Prototyping, Soldering, Inventor
<b>Software &amp; Platforms:</b> Git, Linux, LaTeX, Typst, Adobe Creative Suite, Microsoft 365
<b>Soft Skills:</b> Team leadership, project management, budget management (€25k+), problem-solving, event organization
<b>Languages:</b> French (Native), English (C1), German (B1)
<b>Certifications:</b> TOEFL (C1), Cambridge (C1), HandiManagement Label, Judo Referee Training
<b>Interests:</b> International news, combat sports, motorsports, game programming, technology, innovation, esports, entrepreneurship, travel (USA, Egypt, Europe, ...), 3D printing & modeling