

Vincent Lalanne

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PROFILE

Master's student in microelectronics and computer science at Mines de Saint-Etienne, studying the final year at the University of Auckland. Particular interest in cybersecurity, software development, and machine learning.

EDUCATION

2023 – 2024 [The University of Auckland | Waipapa Taumata Rau](#)

- Auckland, New Zealand*
- Year of immersion and study in computer science and software engineering
 - Relevant courses: cybersecurity | C# .NET | Java | Machine Learning | software architecture | object-oriented development | critical management | database systems

2021 – 2025 [École Nationale Supérieure des Mines de Saint-Etienne](#)

- Gardanne, France*
- Master of Engineering specialised in Computer Engineering and Microelectronics
 - Relevant courses: C/C++ | Machine/Deep Learning | cryptography and security | analog/digital electronics | management | signal processing | finance | assembly and robotics | VHDL | UML

2019 – 2021 [Lycée Marie Curie, Classes préparatoires PT](#)

- Nogent, France*
- Two-year intensive program focusing on Physics, Mathematics, Engineering, and Languages

EXPERIENCE

Jan. 2022 [ENCAPSULIX](#), process equipment for large scale nano-technology Atomic Layer Deposition

- Simiane, France*
- Joined a small team in a high-tech field as an intern
 - Carried out a complete stock analysis and valuation operation
 - Conducted verification of electronic and digital machine operation
 - Performed nano-scale precision measurements with ellipsometer and spectrophotometer

June 2017 [DANAÉ](#), retirement home

- Bordeaux, France*
- Joined and supported staff in carrying out their day-to-day tasks
 - Assisted staff in cleaning rooms, distributing medication, and providing entertainment
 - Assisted the head chef and waiters' team in preparing and serving orders in the best time

June 2016 [MAISON TIZAC](#), local egg production

- Joined and assisted a small team as an intern
 - Held accountancy, managed stock, helped in B2B and B2C delivery

PROJECTS

- 2023 **INDUSTRIAL PROJECT**, automation of passive attack scripts on embedded systems
Gardanne, France
- Led a team of eight students in the development of an innovative web application for a French tech start-up
 - Developed a database-driven Flask web application (HTML, CSS, JavaScript, Python)
 - Used network sniffing and packet analysis scripts (Python/Bash)
 - Created a secure Raspberry PI/computer SSH communication
- Jan. 2023 **PROTOTYPING PROJECT**, design of a capacitive load cell
Gardanne, France
- Worked in pairs on a force transducer operating by elastic deformation of a polymer
 - Obtained a linear sensor with high sensitivity and low error as measured on the 3D printed prototype, by modelling on Comsol Multiphysics and using the Euler-Bernoulli beam theory
- 2021 **TIPE**, Supervised Personal Initiative Work on PSA's Hybrid Air
Creil, France
- Worked in pairs on an innovative hydride vehicle's energy management
 - Studied the thermodynamic aspects of the vehicle
 - Studied the variation in fuel consumption by computer modelling of the NEDC standard route under different conditions of use

OTHER EXPERIENCE

- 2021 – 2024 **Student clubs and associations**
- **Junior Mines Provence, project manager** at my university's Junior-Enterprise
 - Managed technical projects to ensure respectful customer/student communication
 - Approached prospects and led negotiations to ensure the financial stability of the structure
 - **ISMIN Business Forum, event manager**
 - Helped with the organisation of the university's yearly expo
 - **Commission Foyer, general secretary** | student bar manager
 - Strengthened relations with the university by setting up a system of quotes for events
 - Facilitated the administrative process by drafting professional and adaptable templates
 - Led and managed the student bar, tripling the sales revenues in one year by adding variations to the menu, strategically adapting prices, and organising special events
- 2022 – 2023 **Part-time jobs**
- **Private teacher** in Mathematics, Physics, Engineering, French, English, and Philosophy from year 6 to Master students
 - Management agent at the **Mines-Telecom Institute**, French public academic institution dedicated to Higher Education and Research for Innovation
 - Helped sell local produce at my city's farmer market

SKILLS

- IT C | C++ | C# | .NET | Python | Flask | HTML | CSS | JavaScript | SQL | Java | OOP | cybersecurity
- Languages **French** (native) | **English** (fluent, IELTS C1) | **Japanese** | Spanish
- Other information Sound **learning** faculty | valuable **communication** and **negotiation** skills | driving license