Vincent Lalanne

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Nationality: French

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
Auckland, New Zealand

The University of Auckland | Waipapa Taumata Rau
- 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
Gardanne, France

École Nationale Supérieure des Mines de Saint-Etienne
- 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
Nogent, France

Lycée Marie Curie, *Classes préparatoires PT*
- Two-year intensive program focusing on Physics, Mathematics, Engineering, and Languages

EXPERIENCE

Jan. 2022
Simiane, France

ENCAPSULIX, process equipment for large scale nano-technology Atomic Layer Deposition
- 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
Bordeaux, France

DANAÉ, retirement home
- 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
Gardanne, France

INDUSTRIAL PROJECT, automation of passive attack scripts on embedded systems
- Led a team of eight students in the development of an innovative web application for a French tech start-up
  o Developed a database-driven Flask web application (HTML, CSS, JavaScript, Python)
  o Used network sniffing and packet analysis scripts (Python/Bash)
  o Created a secure Raspberry PI/computer SSH communication

Jan. 2023
Gardanne, France

PROTOTYPING PROJECT, design of a capacitive load cell
- Worked in pairs on a force transducer operating by elastic deformation of a polymer
  o 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
Creil, France

TIPE, Supervised Personal Initiative Work on PSA's Hybrid Air
- Worked in pairs on an innovative hydride vehicle's energy management
  o Studied the thermodynamic aspects of the vehicle
  o 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
  o Approached prospects and led negotiations to ensure the financial stability of the structure
  o Managed technical projects to ensure respectful customer/student communication

- **ISMIN Business Forum**, **event manager**
  o Helped with the organisation of the university's yearly expo

- **Commission Foyer, general secretary** | student bar manager
  o Facilitated the administrative process by drafting professional and adaptable templates
  o Strengthened relations with the university by setting up a system of quotes for events
  o 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