

Melchior THIERRY

Student Engineer in Cybersecurity, IT & IoT– Looking for a final year internship

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Profile

Master's **Student Researcher** at **ESILV**, specializing in **Cybersecurity, IT & IoT**. Currently seeking a 6-month internship (second semester 2025) focused on Blue Team operations and embedded systems security. **Passionate, detail-oriented**, and **curious**, I am eager to apply my technical skills in a challenging and stimulating environment.

Professional Experience

Cyber Campus' Working group on Post quantum Cryptography Migration, Paris | May – present

- Contributing to documentation guiding companies through the transition to post-quantum cryptography – [example](#)

IT & Cybersecurity internship | Jacob Douwe Egberts (JDE), Paris | April – July 2024 (4 months)

- Moving IT and network infrastructure, and meeting deadlines.
- Monitoring server vulnerabilities on the production site.
- Skills: Network Architecture, Network Security, Management, Organisation.

IT internship on a production site | JDE, Andrézieux-Bouthéon | June – August 2022 (3 months)

- Cabling in IT bay according to security standards and installation of new servers in factory. Writing procedures for users.
- Skills: Network architecture, OT security, data management.

Education

[ESILV](#) - M2 IT, IoT and Security (SecNumedu Label by ANSSI) | 2020 – 2025 | Paris, France

- Main courses : focus on cybersecurity, IoT security, network security, applied cryptography, databases, and AI
- Research: Setting up a digital twin on an agriPV farm at the Ecole Polytechnique SIRTa Lab
[2 papers written](#) accepted for the Agrivoltaics 2024 conference
- Soft skills** : Scrum methodology, training in team organisation and collective working methods.

Exchange Semester – Electrical Engineering & Computer Science | [National Taipei University](#) | Taiwan – Autumn 2024

- Research into post-quantum cryptography architectures and Zero Trust applied to embedded systems.
- Analysis of automotive security standards (iso 26262, iso/sae 21434) and exploration of deep learning use in NIDS.

Exchange Semester – Electronic Engineering | [Kumoh National Institute of Technology](#) | Korea – Autumn 2022

Technical skills

- Programming** : C#, Python, R, Arduino, SQL, C, Assembly, Bash.
- Tools** : MATLAB, SolidWorks, Visual Studio, VS Code, VirtualBox, Docker, Burp Suit, Linux Environment
- Blue Team** : Vulnerability analysis, NIDS, IT/OT security, containerisation, cryptography, network architecture
- Red Team** : [root-me.org](#) +2100pts, Exploitation of web and system vulnerabilities, retro engineering, cryptography

Languages

- English : C1 (TOEFL 650/677, 12/2021)
- Spanish, Italian : B1/B2
- Korean, Traditional Chinese : A1/A2

Academic projects

Project for Imagination and eXploration 2 (PIX2) - 2022 (10 months)

- Design of an electronically controlled sound-producing object.
- Drafting of specifications and prototyping.
- Skills: Project management, Budget, Teamwork.

Interests

- Music**: Conservatoire (music theory, clarinet for 10 years), self-taught (guitar, piano, composition).
- Sports** : Athletics (regional level), cycling, tennis.