

Christian Sassi

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EDUCATION

Master's Degree in Computer Science, Cybersecurity - University of Trento Trento, Italy
Graduated with a final grade of 110/110 cum laude. Sep. 2023 – Dec. 2025

Bachelor's Degree in Computer Engineering - University of Trento Trento, Italy
Graduated with a final grade of 108/110. Sep. 2020 – Sep. 2023

EXPERIENCE

Bug Bounty Program Operator Feb. 2026 – Present
Huawei Munich, Germany

- Conducting in **bug bounty research** on private programs, with a focus on **mobile security**.

Software Developer Nov. 2024 – Jan. 2026
Energie3 Reggio Emilia, Italy

- Designed a **secure Python backend** to orchestrate authenticated access to multiple external databases via an **encrypted local metadata layer**.
- Built a **custom web-based SQL client** (HTML, CSS, JavaScript) enabling safe query execution with efficient connection management, without external libraries.

Researcher Intern – Cybersecurity Mar. 2025 – Dec. 2025
Fondazione Bruno Kessler (FBK) Trento, Italy

- Adapted the **DAICS** framework into a **distributed federated learning** pipeline for anomaly detection in **Industrial Control Systems (ICS)**.
- Integrated **adaptive aggregation** and **client selection** from the **FLAD** framework, improving overall training efficiency.
- Evaluated on the **SWaT dataset**, achieving **comparable performance** to the centralized baseline while preserving data privacy.

Software Engineer Intern – Embedded Systems Feb. 2023 – Jun. 2024
University of Trento Trento, Italy

- Validated **SPARK SR1020 UWB IoT devices** through specification-based testing, ensuring system reliability.
- Optimized **C-based firmware** for real-time **UWB communication**, reducing response time by **50%**.
- Developed **Python analysis tools** to support debugging and performance tuning.

PROJECTS

MITRE Embedded Capture The Flag (eCTF) Competition | *C, Python*

- Placed **13th out of 116 teams** in a national **firmware security competition** hosted by MITRE.
- Developed secure firmware for Satellite TV using **NaCl**, **Blake2b**, **Argon2id**, and **Monocypher**.
- Performed **reverse engineering** and uncovered **more than 30 vulnerabilities** in competitor firmware through targeted analysis.

Security Testing Analysis for an E-commerce Platform | *Java*

- Performed **static and dynamic analysis** with **SpotBugs** and **OWASP ZAP**.
- Identified **more than 15 issues**, including **SQLi**, **XSS**, and **CSRF**, applying structured **vulnerability management**.
- Designed and applied **over 15 targeted fixes** for identified vulnerabilities, improving overall security posture.

PUBLICATIONS

Real-time Musical Haptics with Ultra-wideband: A Study on Latency, Reliability, and Perception
L. Turchet, C. Sassi, D. Vecchia, G. Picco — Published in IEEE Transactions on Haptics on January 6, 2025.

TECHNICAL SKILLS

Languages: Italian, English

Programming Languages: Python, C/C++, Rust, Java, JavaScript, HTML/CSS, SQL

Security Skills: Injection Attacks, Cryptography, Pwn, Reverse Engineering, Web Security

Last updated on February 10, 2026