

Christian Sassi

sassi.christian@gmail.com | linkedin.com/in/christian-sassi | github.com/christiansassi

EDUCATION

Master's Degree in Computer Science, Cybersecurity - University of Trento <i>Graduated with a final grade of 110/110 cum laude.</i>	Trento, Italy Sep. 2023 – Dec. 2025
Bachelor's Degree in Computer Engineering - University of Trento <i>Graduated with a final grade of 108/110.</i>	Trento, Italy Sep. 2020 – Sep. 2023

EXPERIENCE

Bug Bounty Program Operator <i>Huawei</i> <ul style="list-style-type: none">Conducting in bug bounty research on private programs, with a focus on mobile security.	Feb. 2026 – Present <i>Munich, Germany</i>
Software Developer <i>Energee3</i> <ul style="list-style-type: none">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.	Nov. 2024 – Jan. 2026 <i>Reggio Emilia, Italy</i>
Researcher Intern – Cybersecurity <i>Fondazione Bruno Kessler (FBK)</i> <ul style="list-style-type: none">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.	Mar. 2025 – Dec. 2025 <i>Trento, Italy</i>
Software Engineer Intern – Embedded Systems <i>University of Trento</i> <ul style="list-style-type: none">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.	Feb. 2023 – Jun. 2024 <i>Trento, Italy</i>

PROJECTS

MITRE Embedded Capture The Flag (eCTF) Competition <i>C, Python</i> <ul style="list-style-type: none">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 <i>Java</i> <ul style="list-style-type: none">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 <i>L. Turchet, C. Sassi, D. Vecchia, G. Picco</i> — Published in IEEE Transactions on Haptics on January 6, 2025.
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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