

# Christian Sassi

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## EDUCATION

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

## EXPERIENCE

<b>Bug Bounty Program Operator</b> <i>Huawei</i> <ul style="list-style-type: none"><li>Engaging in bug bounty research on private programs, with a focus on mobile security.</li></ul>	Feb. 2026 – Present <i>Munich, Germany</i>
<b>Software Developer</b> <i>Energee3</i> <ul style="list-style-type: none"><li>Designed a secure Python backend to orchestrate authenticated access to multiple external databases via an encrypted local metadata layer.</li><li>Built a custom web-based SQL client (HTML, CSS, JavaScript) enabling safe query execution with efficient connection management, without external libraries.</li></ul>	Nov. 2024 – Jan. 2026 <i>Reggio Emilia, Italy</i>
<b>Researcher Intern – Cybersecurity</b> <i>Fondazione Bruno Kessler (FBK)</i> <ul style="list-style-type: none"><li>Adapted the DAICS framework into a distributed federated learning pipeline for anomaly detection in Industrial Control Systems (ICS).</li><li>Integrated adaptive aggregation and client selection from the FLAD framework, improving overall training efficiency.</li><li>Evaluated on the SWaT dataset, achieving comparable performance to the centralized baseline while preserving data privacy.</li></ul>	Mar. 2025 – Dec. 2025 <i>Trento, Italy</i>
<b>Software Engineer Intern – Embedded Systems</b> <i>University of Trento</i> <ul style="list-style-type: none"><li>Validated SPARK SR1020 UWB IoT devices through specification-based testing, ensuring system reliability.</li><li>Optimized C-based firmware for real-time UWB communication, reducing response time by 50%.</li><li>Developed Python analysis tools to support debugging and performance tuning.</li></ul>	Feb. 2023 – Jun. 2024 <i>Trento, Italy</i>

## PROJECTS

<b>MITRE Embedded Capture The Flag (eCTF) Competition</b>   <i>C, Python</i> <ul style="list-style-type: none"><li>Placed 13th out of 116 teams in a national firmware security competition hosted by MITRE.</li><li>Developed secure firmware for Satellite TV using NaCl, Blake2b, Argon2id, and Monocypher.</li><li>Performed reverse engineering and uncovered more than 30 vulnerabilities in competitor firmware through targeted analysis.</li></ul>
<b>Security Testing Analysis for an E-commerce Platform</b>   <i>Java</i> <ul style="list-style-type: none"><li>Performed static and dynamic analysis with SpotBugs and OWASP ZAP.</li><li>Identified more than 15 issues, including SQLi, XSS, and CSRF, applying structured vulnerability management.</li><li>Designed and applied over 15 targeted fixes for identified vulnerabilities, improving overall security posture.</li></ul>

## PUBLICATIONS

<b>Real-time Musical Haptics with Ultra-wideband: A Study on Latency, Reliability, and Perception</b> <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

<b>Languages:</b> Italian, English
<b>Programming Languages:</b> Python, C/C++, Rust, Java, JavaScript, HTML/CSS, SQL
<b>Security Skills:</b> Injection Attacks, Cryptography, Pwn, Reverse Engineering, Web Security