

# Elia Innocenti

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## Summary

Passionate about addressing complex digital security challenges, with interests in system and network security, cryptography, threat detection and intelligence, ethical hacking, security monitoring, and strategic use of threat information and analytics. Music lover and outdoor enthusiast, with a keen interest in hiking and alpinism.

During my academic journey I've completed a variety of hands-on **projects**, each of which can be found on my [Github](#).

## Education

**MEng Politecnico di Torino, Cybersecurity Engineering** Sept 2024 - Present

- English-taught master's program compatible with ECSO's curriculum standards.

**BEng Università degli Studi di Firenze, Computer Engineering** Sept 2021 - Sept 2024

- Thesis:** "Object detection for landmark recognition in smart tourism applications"  
(Topics: Computer Vision, Deep Learning, Edge Computing)

## Experience

**Mu Nu Chapter of IEEE-Eta Kappa Nu**, Member of Logistics and Fundraising Apr 2025 - Present

- Orchestrated end-to-end logistics for STEM events and IT hackathons
- Cultivated and managed partnerships with tech companies and keynote speakers
- Collaborated with: ARM, NXP, STMicroelectronics, and more

**Local Summer Camps**, Volunteer Youth Leader and Educator Oct 2015 - Jul 2024

- Led the planning and logistics of annual summer camps
- Mentored junior youth leaders in activity planning and group coordination

## Some Projects

[Service Mesh Research](#), @ PoliTo

- Analysis of service mesh architectures and security
- Comparative study of cloud-native implementations

[Secure Timeout System on NXP](#), @ PoliTo

- QEMU emulation with FreeRTOS integration
- Multi-task secure timeout with UART comms

[SSH Shell Attacks Analysis](#), @ PoliTo

- ML classification of 230k SSH attacks
- Pattern analysis with clustering and NLP

[ReinHerit - Smart Tourism](#), @ UniFi

- Android app for monument object detection
- Computer vision alternative to image retrieval

## Skills and Technologies

**Programming and Markup Languages:** C/C++, Python, Java, JavaScript, SQL, LaTeX, Markdown, Bash/Shell

**Technologies and Tools:** OS X, Linux, Jupyter Notebook, Git, Github, Docker, Wireshark, Kali Linux

**Soft Skills:** Analytical Thinking, Problem Solving, Teamwork and Collaboration, Communication, Leadership, Continuous Learning, Organizational skills

## Licenses and Certifications

**GNU / Linux Advanced**

Politecnico di Torino

**Certificate in English B2 First (FCE)**

Cambridge University Press & Assessment

## Languages

**Italian:** Native proficiency

**English:** Professional working proficiency

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