



Roberto D'Isanto

Computer Engineer

Cybersecurity · Training · Software

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PROFILE

Computer engineer, self-employed. I work across cybersecurity, software development and IoT/cloud systems; teaching and technical training have long run alongside my consulting work. PhD candidate in Information Technology and Electrical Engineering at the University of Naples Federico II.

SKILLS

LANGUAGES

Python Swift C# Bash

SECURITY

Pentesting Network security
Reverse engineering Fuzzing
Firmware analysis IoT security
Mobile security SDR

SYSTEMS & NETWORKS

Linux sysadmin
Docker & containers Virtualization
Cisco networking Cloud (AWS)
CI/CD Git

IOT & EMBEDDED

IoT Embedded firmware LoRa
DJI drones Unity (AR/VR)

LANGUAGES

Italian — native

EXPERIENCE

Freelance Computer Engineer

2015 – present

Consulting, software development and technical training · Pozzuoli / Naples, IT

- Cybersecurity consulting and development: network, software, mobile and IoT security; reverse engineering (AOSP Binder analysis, under NDA), fuzzing and software-defined radio.
- Participation in NATO's "Cyber Coalition" cyber-defence exercise (two editions).
- NRRP expert: specialist technical support to the Regione Campania (regional government) on the delivery of the Plan's projects, including AI pipelines and process automation.
- Teaching and technical training: ITS modules on network security and cloud (ITS Academy "ICT Campus"), courses for Sistemi Formativi Confindustria and IFTS programmes, work for the Italian Air Force (pentesting simulation in the "FILMC" exercise, "CANSAT" project tutoring), work-study courses in high schools (NRRP).
- IoT/cloud prototyping: customised WLED open-source firmware and Mosquitto MQTT ("Sagomata IoT"); DJI Cloud API integration on a DJI Matrice T30 drone.
- Embedded development in collaboration with Galileo Engineering.
- Unity XR development (for Wstaff and AGS Ideas): gamified VR training simulator for industrial presses, "Palazzo San Teodoro" virtual tour (Oculus), AR/VR apps for retail events.
- Mobile development: "e-PediatricChronic Care" iOS app (Swift).
- Clients: Regione Campania, Italian Air Force Academy, Leonardo Skill & Training, Galileo Engineering, SecSi, Wstaff, Gematica, Dabliu, AGS Ideas.

Mentor — Cyber HackAcademy

2020 – 2025

University Federico II — in partnership with Accenture · Naples, IT

Teaching and tutoring across four editions (2020/21 – 2024/25) with a Challenge-Based Learning approach, on offensive and defensive security: network and software security, reverse engineering, fuzzing, IoT security and software-defined radio.

EDUCATION

PhD in Information Technology and Electrical Engineering

2023 – present

University Federico II — 39th cycle · Naples, IT

MSc in Computer Engineering

2021

University Federico II · Naples, IT

Thesis: *A study of the Android Keystore through Reverse Engineering*. iOS penetration-testing project (Apple Developer Academy "Wuozzappen" workshop). Collaboration with Microsoft and TIM WCAP on a HoloLens AR app for industrial-device monitoring.

BSc in Computer Engineering

2017

University Federico II · Naples, IT

Thesis: *Virtual Reality and Applications*.

iOS Developer Academy

2017

Apple Developer Academy · Naples, IT

Swift, UI/UX, Git, CI/CD and cloud backend (Vapor, Docker, AWS).

Cisco Digital Ready Networking Bootcamp

2019

DTLab — Federico II · CCENT certification · Naples, IT

English — professional working proficiency

CERTIFICATIONS

- Cisco CCENT
- Palo Alto Networks PCCET
- Microsoft MOS & MTA ($\times 11$)
- Apple Teacher — Swift Playgrounds
- EASA drone licences A1/A3 · A2

TALKS

Code Injection & Runtime Manipulation in iOS

Apple Developer Academy (Wuozzappen), 2019

Kivy: Python for mobile

DTLab — Federico II, 2020

Security by Example

Air Force Military Sciences Institute, Florence, 2021

Guest lectures — Network Security course

University Federico II

State Examination

[Licensed Professional Engineer \(Italy\)](#)

Registered with the Order of Engineers of the Province of Naples since 2022.

PROJECTS & OPEN SOURCE

- **SkyRescue** — a flying Meshtastic node on an RC plane and FPV drones that brings LoRa coverage where there is no mobile network during search and rescue (ExpressLRS hardware, iNav, cloud backend).
- **iNav** — contributions to the open-source navigation firmware for UAV flight controllers.
- **Meshtastic** — contributions to the firmware for off-grid LoRa mesh networks.
- **MSRC** — contributions to the open-source multi-sensor telemetry converter for RC aircraft.
- Contributions to other open-source projects.
- **Hackathons** — HackRome (2026, winning project: SkyRescue); HackNight@Museum (Naples, 2019, winning project).