

TECHNIKON

We are an independent, privately owned research company in Villach, Austria which provides research services and technology based consultancy to high-tech companies across Europe.

Connected Devices: Methodology and requirements for the creation of open-source hardware

Working Student / Master's / Bachelor's Thesis

A methodology and security requirements for the development of secure embedded devices shall be defined in cooperation with renowned European researchers.

Interested? Write us!

Background

ORSHIN – a European research project with the goal to create a “trusted life cycle” to develop and manage connected devices based on open-source hardware.

Within the frame of the thesis a methodology and security requirements for the development of secure embedded devices shall be defined in cooperation with European researchers. More specifically:

- Contribute to the development of the details of the design methodology
- Support the description how a system developer should apply the methodology to compose a secure system from secure components
- Contribute to the mapping of abstract security requirements into concrete policies for the life cycle phases
- Support the definition of concrete security requirements for device components

Your Profile

- Profound technical knowledge and experience in terms of IoT and embedded systems
- Interest on hardware security, especially on open-source hardware
- Understanding for cryptographic protocol design over software and firmware
- Knowledge of design and evaluation of secure cryptographic circuits
- Background on firmware vulnerability analysis and formal verification
- Well-found English proficiency, capacity for teamwork as well as personal commitment and sense of responsibility

We offer you

- You will be working for the research department of TECHNIKON and become part of the ORSHIN project team.
- Your effort leading to this thesis will be paid for by Technikon.

Interested?

Contact us at jobs@technikon.com and send us your CV and reference letters.

