

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. You will be granted access to our laboratory equipment and security hardware.
- We consider a gross payment sum of EUR 7.500,00 for the thesis, assuming that the candidate is eligible for receiving payments either as “Werkstudent” or “Student” under the Austrian law for employment.

Interested?

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

