

Hardware Cybersecurity Intern [IDA: 00061]

Your profile

The selected intern will contribute to research and development activities around security aspects of chiplet-based architectures. The focus will be on assessing the robustness of die-to-die interconnect standards in the context of potential leakage channels.

Key tasks include:

1. Study and analyze chiplet interconnect protocols from a security perspective.
2. Characterize patterns of information leakage related to power consumption and timing behavior.
3. Evaluate the feasibility of different classes of attacks exploiting such leakage channels.
4. Investigate the potential for sensitive components in chiplet-based systems to contribute to side-channel exposure.
5. Explore and document possible mitigation strategies to enhance resilience against leakage.
6. Prepare technical documentation and reports summarizing findings, experiments, and recommendations.

Our offer

Pursuing a Master's degree in Electrical Engineering, Computer Engineering, Computer Science, or related discipline.

1. Strong foundation in digital systems, SoC design, or computer architecture.
2. Knowledge of hardware security concepts such as side-channel attacks, fault injection, or secure hardware design.
3. Proficiency in programming/scripting (Python, C/C++, or similar).
4. Ability to analyze experimental data and document findings effectively.

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About us



Job ID
REF4405P

Field of work
Engineering

Location
Singapore

Legal Entity
**Continental Automotive
Singapore Pte. Ltd.**

Since its spin-off in September 2025 AUMOVIO continues the business of the former Continental group sector Automotive as an independent company. The technology and electronics company offers a wide-ranging portfolio that makes mobility safe, exciting, connected, and autonomous. This includes sensor solutions, displays, braking and comfort systems as well as comprehensive expertise in software, architecture platforms, and assistance systems for software-defined vehicles. In the fiscal year 2024 the business areas, which now belong to AUMOVIO, generated sales of 19.6 billion Euro. The company is headquartered in Frankfurt, Germany and has about 87.000 employees in more than 100 locations worldwide.