

## *ΔΙΠΛΩΜΑΤΙΚΗ ΕΡΓΑΣΙΑ ΣΤΗΝ ΠΕΡΙΟΧΗ ΤΟΥ IOT-INFINEON TECHNOLOGIES AUSTRIA*

The digitalization and increasing connectivity of (critical) cyber-physical objects is today enabling the development of large new set of applications in both the automotive and industrial manufacturing markets. These innovations have also lead to new safety & security related requirements in the design, testing, production and operation of these systems.

Realizing in a cost-effective way, the full potential of trustworthy and secure cyber-physical systems and applications in Automated Driving and Industry 4.0 requires a holistic approach that embraces all operational aspects, with the objective of a) ensuring trusted interaction across devices, machines and networks; b) maintaining integrity, authenticity and confidentiality of information; and c) sufficiently protecting production data and intellectual property.

The IoT4CPS project supports digitalization along the entire product lifecycle. It provides innovative components and system designs, facilitating the implementation of level 3 and level 4 autonomous driving functions, and the development of innovative solutions for smart production environments.

Within IoT4CPS, Infineon will assess the requirements of secure and reliable V2X communication systems, and contribute to the development of a cognitive open vehicle platform as enabler for smart instrumentation. It will also investigate trustworthy radio connectivity solutions for I4.0 environments, with holistic secure connectivity concepts that facilitate the operation of communication infrastructure along the entire production and product lifecycle.

We are looking for students with the willingness to work in a challenging environment in a highly motivated international team. This specific job is suitable for students with technical studies in the field of Computer Science or comparable with training on IT-/computer-security.

Learning outcomes:

- Gain experience working in the semiconductor industry
- Acquire further insights on the latest industrial IoT projects
- Enhance knowledge related to the application of high-end communications hardware, security components, protocols and policies for smart industry applications.
- Develop your interpersonal and intercultural skills through communicating within the diverse multinational environment.

For more information please check at: <https://iot4cps.at/>

Infineon Technologies Austria: [www.infineon.com/cms/austria/en](http://www.infineon.com/cms/austria/en)

Η εκπόνηση της διπλωματικής εργασίας περιλαμβάνει πλήρη οικονομική και ασφαλιστική κάλυψη κατά τη διάρκεια της παραμονής στην Αυστρία. Για περισσότερες πληροφορίες επικοινωνήστε με την Καθηγήτρια κα Δ. – Θ. Κακλαμάνη.