



SMART MOBILITY - Smartphone based access using wireless communication

Thesis Description

As per the current state of the art, mobility is undergoing a dramatic change. Aside the upcoming electrical car new mobility solutions integrating car sharing, access on demand in combination with autonomous driving will revolutionize our future mobility behavior. Access to such solutions, security and privacy will play a key role. Your work will address new system concepts in this context considering new wireless communication capabilities.

Your Responsibilities

- Analysis of existing Bluetooth LE and NFC capabilities
- Analysis of identification schemes and related security mechanisms
- Development of small hardware boards ("access module") with wireless interface module
- Firmware development for access module based on access scheme
- Software development for Android and iOS based Smartphones

Your Tech-Profile

- Java, C and/or C++ language
- Interest for embedded systems and wireless communication systems
- Interest in security
- Background in microcontroller programming

The Thesis Mission

- Broaden know-how of embedded systems
- Apply and analyze advanced access solution with Smartphones
- Explore application capabilities of Bluetooth LE and/or NFC technology
- Extend experience with smart mobility solutions

As a Company we offer

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Location: - **Klagenfurt**, Austria, Lakeside Science & Technology Park; or
- **Graz**, Austria, Historic city center at Stadtpark.

Payment: This position is subject to voluntary, success-based payment by CISC Semiconductor GmbH that will reflect your professional experience, achieved results and personnel engagement in the research topic.

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