Mobile application development for upcoming vehicle communication concepts in Singapore

TUM CREATE

About TUM CREATE
TUM CREATE is a joint research programme between Technische Universität München (TUM) in Germany and Nanyang Technological University (NTU) in Singapore with funding by the National Research Foundation of Singapore. It is investigating innovative technologies, future transportation concepts and the application of electric vehicles (EVs) to match the challenging requirements of fast-growing tropical megacities. This is a highly interdisciplinary international research effort, combining expertise from several institutes from TUM and NTU.

Project Description
TUM CREATE is developing a next generation electric vehicle for a tropical megacity like Singapore. Without a proper software foundation a modern car cannot function properly, an electric one even less. Mobile computing and interaction with all kinds of real life objects is getting more important and through always connected devices the interaction possibly is limitless. From finding a vehicle to controlling essential functions mobile devices like smart phones and tablets are essential. For the internal vehicle related functions and communication structure as well as the external communication with different web-services TUM CREATE is looking for an experienced Bachelor student. Applicants should have a high interest in software engineering and system development for current and upcoming mobile platforms like iOS, Android and Windows Phone. The work also extends to backend development of services architectures communicating via REST or SOAP in a Java and C program environment.

The position is available immediately. Applicants* should send a CV and covering letter by email to Dr. Heiko Aydt (heiko.aydt@tum-create.edu.sg).

Requirements:
- Undergraduate student in Computer Science (preferably with focus on Software Engineering)
- High standard of English (written and spoken)
- Good programming skills in Java are required & Objective-C beneficial
- Prior experience with either iOS or Android mobile ecosystems required
- Knowledge in programming for Windows Phone beneficial
- Knowledge about Web-service development and communication beneficial
- Interface design knowledge and concepts about HMI are a plus

*Singaporean/PR applicants are preferred.