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We at BMW Car IT GmbH take the responsibility for software across domains. By delivering software all the way from the idea to the final product we lead BMW into the future of digitalization.

PhD Position: Flexible end-to-end protocol for car-2-backend communication (m/f)

BMW Car IT GmbH lives and breathes software. As a fully owned subsidiary of BMW AG we are a cornerstone in the company's transition into the next 100 years where software plays a crucial role. The increasing amount of data generated and consumed by modern cars (e.g., sensors for advanced driver assistance or high definition maps) requires new solutions for flexible data exchange within and outside the car.

As a PhD student, you actively contribute and shape the software architecture for next generation mobility solutions. One major challenge is the paradigm shift of in-vehicle communication: while communication between ECUs nowadays is based on cyclic bus data or events, a change to a service-oriented architecture becomes more and more important.

The position shall start September 2018 and is funded for 3 years.

Requirements:

- Master's degree in Computer Science, but not yet a doctoral degree
- Preferably, skills and experience in Service-oriented Computing and interest in the automotive domain
- Basic experience in clear writing of scientific reports and articles
- Ability and willingness to work as a team player
- Very good skills in English in speech and writing, German would be an advantage

Location: Ulm

Contact: students@bmw-carit.de

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