



MASTER'S THESIS – INTEGRATION OF STOCHASTIC MODELS AND SIMULATION CONTROL INTO A SIMULATION FRAMEWORK

Located in Kösching / Germany

Your responsibilities

- In the Master's Thesis, the following aspects will be covered
 - Identifying stochastic system parameters, i.e. uncertainties or variations in software and system behavior or in the surrounding world
 - Finding suited probability distributions
 - Implementing stochastic sampling and simulation control into an existing Matlab-based simulation framework
 - Conducting of validation studies
- The Master's Thesis offers challenging research on mathematical methods and sophisticated simulation concepts for Autonomous Driving
- Furthermore, it offers the chance to work with specialists with long-term experience in this area in a start-up environment

Your profile

- A course of studies in a technical area (e. g. computer science, mathematics, physics, electrical engineering)
- Good mathematical understanding and analytical competencies
- Strong interest in new and trendsetting technologies in the automotive industry
- Good programming skills in Matlab and/or C/C++
- Knowledge of standard business software products (Microsoft Office, Outlook, etc.)
- Fluency in German and English are required, any other language is considered an asset
- Strong coordination, negotiation, organization and communication skills
- The ability to work autonomously in an international environment, creativity, team spirit and a pro-active attitude are imperative

For further information and to submit your application please visit our website careers.iee.lu.

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