Master Thesis Modelling of a quantum gyroscope

Robert-Bosch-Campus 1, 71272 Renningen, Germany
Full-time
Legal Entity: Robert Bosch GmbH

Company Description

Do you want beneficial technologies being shaped by your ideas? Whether in the areas of mobility solutions, consumer goods, industrial technology or energy and building technology – with us, you will have the chance to improve quality of life all across the globe. Welcome to Bosch.

The Robert Bosch GmbH is looking forward to your application!

Job Description

- During your assignment you are responsible for literature study and concept development of multi-axis quantum sensors, i.e. gyroscopes.
- You support us in development and refinement of a Matlab Simulink model of a quantum gyroscope including the physical principle and the electronic feedback control.
- Not least you evaluate the system model with respect to technical feasibility, limitations and sensitivity.

Qualifications

- **Education:** studies in the field of physics, electrical engineering, mechatronics or comparable
- **Personality and Working Practice:** interested, innovative, open-minded, focused, autonomously, conscientiously working method and team-minded
- **Experience and Knowledge:** knowledge in quantum physics, atomic physics and control theory, experience with Matlab and Simulink
- **Languages:** fluent in English, German is beneficial

Additional Information

Start: according to prior agreement
Duration: 6 months

Requirement for this thesis is the enrollment at university. Please attach a motivation letter, your CV, transcript of records, examination regulations and if indicated a valid work and residence permit.

Need further information about the job?
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