Karlsruhe Institute of Technology

Communications Engineering Lab (CEL)
Prof. Dr.-Ing. Laurent Schmalen
Prof. Dr.-Ing. Peter Rost

Mobile Radio Analytics

Master's Thesis

Project

Rohde & Schwarz is offering a master's thesis topic in the field of Mobile Radio Analytics at its Munich (Germany) location, available to start as soon as possible. The thesis is to be conducted in collaboration with the Communications Engineering Lab (CEL). Rohde & Schwarz provides direct information regarding the specific terms and conditions.

Tasks

1. Familiarize yourself with mobile communication standards and protocol stacks (Layers 1–3)
2. Translate concepts into existing software-based mobile communication system
3. Set up, test and document platform-based mobile communication systems
4. Develop a portable IoT scanner based on open-source tools

Requirements

- ✔ Solid programming experience in Python, C/C++,
- ✔ Initial experience with development and testing environments
- ✔ Ideally some exposure to mobile communication standards or embedded systems
- ✔ Strong communication skills, analytical thinking, and an independent, structured approach to work
- ✔ Excellent written and spoken German and English skills

Institute

Communications Engineering Lab

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