Associate Professorship of Embedded Systems and Internet of Things
Department of Electrical and Computer Engineering
Technical University of Munich

1/1

5G testbed Setup

Description of Research Topic
October 23, 2024

Title: "5G testbed Setup"
Supervisor: Rubi Debnath

Context

5G testbed using Software Defined Radio (SDR) provides a flexible and cost-effective platform for developing and testing 5G technologies. It allows to prototype 5G network components such as base stations, user equipment, and core networks in real-time.

Requirements

- **Knowledge of computer networks and 5G.**
- **Very good Python, and C++ programming skills.**
- **Experience with hardware testbed setup and measurements.**
- **Should be motivated to work on research topics and read reserach papers.**
- **Networking Knowledge: Familiarity with networking concepts routing, and network protocols.**
- **Strong research capabilities to conduct literature reviews, analyze existing research, and identify research gaps.**
- Independent and able to work with minimal supervision.

Contact

If you are interested in this topic, please send your full application (CV, current transcript of records, research interests, possible start dates) to Rubi Debnath (rubi.debnath@tum.de).