



## Wireless Harness Testbed for Modular Satellites (Bachelor/Master Thesis/ Practical)

Novel modular concepts for satellite architecture compliment a fixed wired satellite bus with a flexible wireless harness, promising a higher flexibility & intra-satellite operability. One major challenge in such an architecture is to handle mutual RF interference and negative influence of satellite structures on communication.



### Tasks

- Integration of several RF-transceivers into 3-Unit Satellite HW reference model
- Measure influence of subsystem modules on communication, e.g. SNR/RSSI
- **Ma-Thesis:** Further integrate & test RF-transceiver bus with real satellite subsystems

### Required Previous Knowledge

C-Language, Embedded SW development

### Language

German or English

### Contact via Mail or Video Chat

Florian Kempf: [florian.kempf@telematik-zentrum.de](mailto:florian.kempf@telematik-zentrum.de)

Ilham Mammadov: [ilham.mammadov@telematik-zentrum.de](mailto:ilham.mammadov@telematik-zentrum.de)

