



# Inter-Satellite Communication Software (ZfT – Space, Bachelor/Master Thesis)

## **Motivation**

The aim of this master's thesis is the development of inter-satellite communication protocols for the operation of multiple CubeSats in LEO. Formations of multiple small satellites (TOM, NetSat, CloudCT) will be the target platform of the proposed algorithms.

## **Tasks**

- Research, comparison and selection of existing protocols
- Definition of HW/SW requirements (within CubeSat constraints)
- Examination of mission requirements for NetSat, TOM, and CloudCT
- Software and scenario design for multiple applications
- Implementation and evaluation of various protocols

## **Experience**

- Programming (required)
- Electronics (useful)
- Communications (useful)
- Experience with Radios/ADC+DAC/Antennas (useful)

## **Contacts**

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