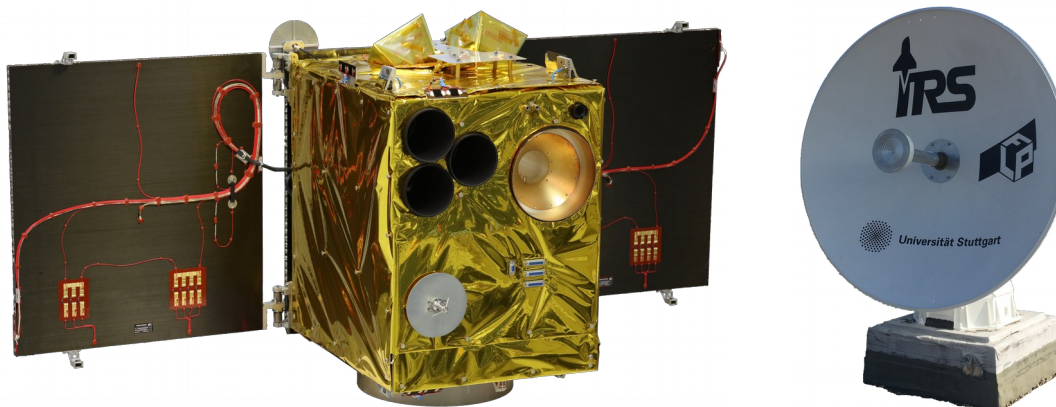


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## Student Assistant for SDR Development in Broadband Satellite Reception

The small satellites group at the Institute of Space Systems is looking for a student assistant for the (continued) development of an SDR solution for the reception of images and other payload data from the in-house developed small satellite „Flying Laptop“.



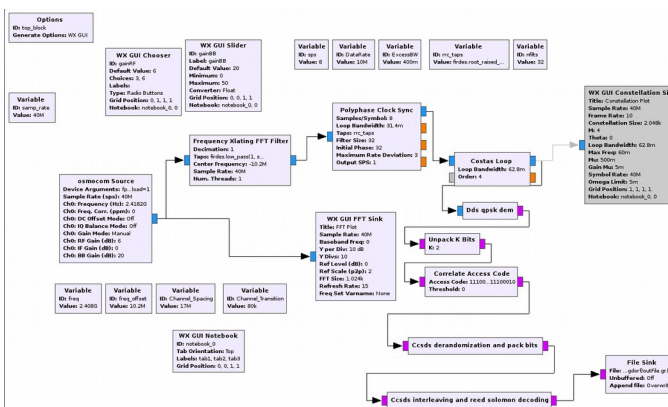
The Flying Laptop was already launched in July and is successfully operated via the institute's ground station. To enable (amateur)radio users to receive the 10 MBit/s signal send by the DDS (DataDownlinkSystem) in the 13 cm amateur radio band without the need for dedicated hardware, the development of an SDR reception software utilizing GnuRadio was started. A student assistant is now needed to evaluate the existing work and continue the development.

To support the development the engineering model of the DDS transmitter can be used to generate test signals and various SDRs (HackRF, BladeRF, B200mini) are available at the institute.

If interested the assistant may also partake in the operation of the Flying Laptop ground station after receiving an introduction. For this an amateur radio CEPT license or equivalent (e.g. German Class A) is required.

Interested? Please contact:

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