LAURA TESSIN

Electrical Engineering and Information Technology

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EXPERIENCE

System Integration Engineer
Loft Orbital Solutions

📅 June 2019 – August 2021   📍 San Francisco, USA

Collaborated with all teams to develop, build, launch and operate Loft Orbital's first two satellite missions.

Software Verification
- implemented the infrastructure to test Loft's ground control software with the embedded software running on the payload interface and control unit using docker, python and jupyter notebooks
- worked with systems and software engineers to gather requirements and implement corresponding test scripts
- worked with software engineers of ground control and embedded teams to test the full system both software- and hardware-in-the-loop.
- set up the EGSE (electrical ground support equipment) and test scripts so that customers could test their payload against Loft's software and hardware

Assembly Integration and Test (AIT)
- AIT of the flight hardware of Loft's payload hub and customer payloads
- joined the test campaigns for pre- and post-delivery of the payload hub and the EMI/EMC test campaign

Satellite Operations
- developed scripts to operate the satellite and did real-time operations on flight
- implemented grafana dashboards for satellite operations

Internship
Airbus Defence & Space

📅 April 2017 – October 2017   📍 Friedrichshafen, Germany

Worked in a team developing a new satellite platform.
- scripting and maintenance (Java) for the system reference database
- developed plots (Matlab, GNU Octave) and documentation scripts (Java) for functional verification

EDUCATION

Programming Retreat at the Recurse Center
Recurse Center

📅 November 2021 – February 2022

Part of a 12-week batch at the Recurse Center, a self-directed, community-driven educational retreat for programmers. Find more of my projects at https://lauratessin.com/projects.
- did a nand2tetris walkthrough with a group of recursers to develop a computer from first principles
- led a weekly creative coding meetup

M. Sc. Electrical Engineering and Information Technology
Karlsruhe Institute of Technology (KIT)

📅 April 2016 – March 2019

Focus on systems engineering and robotics.

B. Sc. Electrical Engineering and Information Technology
Karlsruhe Institute of Technology (KIT)

📅 October 2011 – March 2016

Focus on hardware design.