

LAURA TESSIN

Electrical Engineering and Information Technology

@ lauratessin@gmail.com www.lauratessin.com github.com/laurate

EXPERIENCE

Software and Systems Engineer

Loft Orbital Solutions

June 2019 – August 2021 San Francisco, USA

Assembly, Integration and Test (AIT) for a satellite subsystem. Implement infrastructure to run system-level tests between Ground Software and Flight Software (Python).

Internship

Airbus Defence & Space

April 2017 – October 2017 Friedrichshafen, Germany

Working in a team developing a new satellite platform.

- Scripting and maintenance (Java) for the System Reference Database
- Developing plots (Matlab, GNU Octave) and documentation scripts (Java) for Functional Verification

Student Assistant

Karlsruhe Institute of Technology (H2T)

June 2016 – April 2017 Karlsruhe, Germany

Developing a miniaturized motion tracking solution. Using Altium to develop a miniaturized motion tracking device and developing an AHRS sensor network (Python).

EDUCATION

Programming Retreat at the Recurse Center

Recurse Center

November 2021 – Today

Part of a 12-week batch at the Recurse Center, a self-directed, community-driven educational retreat for programmers.

M. Sc. Electrical Engineering and Information Technology

Karlsruhe Institute of Technology (KIT)

April 2016 – March 2019

Focus on systems engineering and robotics.

- Master's thesis on "Development of an adaptive locomotion strategy for a modular multi-legged robotic system with arbitrary leg numbers" at the FZI Research Center for Information Technology (video of the main features available at <https://youtu.be/lzfua5T34Ag>)
- Final grade: 1.4 (very good), thesis grade: 1.0 (very good)

B. Sc. Electrical Engineering and Information Technology

Karlsruhe Institute of Technology (KIT)

October 2011 – March 2016

Focus on hardware design.

- Bachelor's thesis on "Concept and implementation of a wireless wearable motion tracking device based on an AHRS" at the High Performance Humanoid Technologies lab (H2T)
- Final grade: 2.5 (good), thesis grade: 1.0 (very good)

SKILLS

Python C++ Java GraphQL

ROS Gazebo

VHDL Verilog Altium

Gitlab Github

Matlab GNU Octave

LANGUAGES

German ●●●●●

English ●●●●●

Spanish ●●●●●

French ●●●●●

CERTIFICATION

Basic Certificate in Project Management (GPM)

Examination of basic project management skills like terminology, concepts and methods.

VOLUNTEERING

Coder Dojo Karlsruhe

📅 October 2017 – December 2018

- Developed a robotic workshop in which children can learn to control a four-wheeled robot using the Arduino IDE
 - Educated children and teenagers in computer science (Python, C++ and Scratch)
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Polytechnischer Verein Karlsruhe

📅 October 2011 – October 2014

- Self organized living community of 15 students
 - Held positions as treasurer and member of board, organizing talks and trips
 - Gave talks on satellite technology, my trip around the world and other topics
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Trip around the world

📅 September 2010 – July 2011

- Travels through Central and South America, New Zealand, Australia and South Africa
 - 3 months voluntary service in a botanical garden in Puyo, Ecuador
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Scouting

📅 2007 – 2010

- Volunteered as a team leader
- Organized weekly group meetings, weekend activities and a canoe trip to Sweden
- Participated in a four-week trip to Burkina Faso in 2009 to build a hospital