# LAURA TESSIN

## Electrical Engineering and Information Technology

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

# EXPERIENCE

### Internship
**Airbus Defence & Space**

April 2017 – October 2017        Friedrichshafen, Germany

Worked in a team developing a new satellite platform.

- Scripting and maintenance (Java) of the System Reference Database
- Developed plots (Matlab, GNU Octave) and documentation scripts (Java) for Functional Verification
- Documentation and visualization (Visio) for Operations

### Student Assistant
**Karlsruhe Institute of Technology  (H2T)**

June 2016 – April 2017        Karlsruhe, Germany

Developed a miniaturized motion tracking solution.

- Used Altium to develop a miniaturized motion tracking device
- Developed an AHRS sensor network (Python)

### Student Assistant
**Karlsruhe Institute of Technology  (ITIV)**

October 2012 – May 2013        Karlsruhe, Germany

Tutor for the lecture "Digital Technology".

# EDUCATION

### 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

ROS    Gazebo

VHDL    Verilog    Altium

Git    Github    Gitlab

Matlab    GNU Octave

# LANGUAGES

**German**    ●●●●●

**English**    ●●●●●

**Spanish**    ●●●○○

**French**    ●●○○○

# CERTIFICATION

🏆 **Basic Certificate in Project Management (GPM)**
Examination of project management skills like terminology, concepts and methods.

# VOLUNTEERING

### Coder Dojo Karlsruhe

📅 October 2017 – December 2018

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

---

### 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

---

### Trip around the world

📅 September 2010 – July 2011

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

---

### Scouting

📅 January 2007 – March 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