

# LAURA TESSIN

## Electrical Engineering and Information Science

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github.com/laurate

## EXPERIENCE

### Traineeship

#### Loft Orbital Solutions

June 2019 – Today

San Francisco, USA

Assembly, Integration and Test (AIT) for a satellite subsystem.

### 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
- Documentation and visualization (Visio) for Operations

### 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
- Developing an AHRS sensor network (Python)

### Student Assistant

#### Karlsruhe Institute of Technology (ITIV)

October 2012 – May 2013

Karlsruhe, Germany

Teaching assistant 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

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

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## 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