

## EMMA PREYSING

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### EDUCATION

#### Web Development Certificate

Oktober 2023 – Dezember 2023

Le Wagon | Berlin, Germany

Focus on: HTML, CSS, Bootstrap, JavaScript ES6, SQL, Git, GitHub, Heroku and Ruby on Rails

#### BSc Mechatronics and Robotics

September 2020 – July 2023

FH Technikum Wien | Vienna, Austria

Focus on: Applied Computer Science, object orientation paradigms (C++), automation technology and industrial robotics (ROS)

Bachelor thesis: Sustainability in additive manufacturing: A comparison of current production and fully digital production of a prosthesis socket under consideration of ecological aspects, Graded: 1.0

#### Carpentry Journeyman Certificate

2015 – 2020

Heimschule Kloster Wald | Wald, Germany

Journeyman's piece: Living room table

#### Abitur

2015 – 2019

Heimschule Kloster Wald | Wald, Germany

Performance subjects: Mathematics, German, English and Sports, Abitur average: 2.5

### BUSINESS EXPERIENCE

#### Ottobock | Berlin, Germany

February 2023 – June 2023

Intern in the Digital Fabrication department

Projects: Bachelor thesis, setup of additive manufacturing processes

- Analysed ecological sustainability at Ottobock and showed that the use of additive manufacturing processes can save up to 79% of CO2 emissions
- Carried out tests of the FDM printing process and demonstrated its suitability as a digitised alternative for the manufacture of prosthetic devices

Skills learnt: Sustainable development • Economic sustainability • 3D printing • Computer-aided design (CAD)

#### TTTech Aerospace | Vienna, Austria

October 2022 – February 2023

Working Student in the Space Systems Development department

Project: Model Based Systems Engineering for Aerospace Systems Development

- New introduction of the Model Based Systems Engineering (MBSE) process in the company by implementing a systems development project in an MBSE environment
- Documenting and evaluating various aspects of a typical aerospace project using Enterprise Architect to support the MBSE process

Skills learnt: Sparx Enterprise Architect • Model Based System Engineering (MBSE) • Aerospace Engineering • Project Planning

#### Infineon Technologies | Munich, Germany

July 2022 – August 2022

Intern in the Power and Sensor Systems department

Project: Blood pressure measurement with radar

- Development and optimisation of methods for calibrating blood pressure measurements using radar technology to promote its use in healthcare
- Carrying out blood pressure measurements on test persons using radar and a reference device and developing methods and scripts for filtering erroneous data

#### Thonet GmbH | Frankenberg, Germany

August 2019

Manufacturing Intern

- Responsible for the production and restoration of furniture as well as supporting and carrying out work processes in the assembly, wood production and upholstery departments

### VOLUNTEERING

#### Malteser Project | Romania

2017

Care for orphans and people with disabilities

#### Kindergarten | Krauchenwies, Germany

2016

Working with children aged one to five years

#### Refugee project | Wald, Germany

2015

Homework and recreational support for refugee children

### SKILLS AND INTERESTS

Languages: German (mother tongue), English (fluent), Latin major

Programming languages: Ruby on Rails (good knowledge), CSS (good knowledge), JavaScript (good knowledge), C++ (basic knowledge), Python (basic knowledge)

Programs: SolidWorks (good knowledge), Robot Operating System (good knowledge)

Hobbies: Bouldering, Skiing, Football