

Lilli Freischem

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EDUCATION

BEng. Electronics and Computer Science – University of Edinburgh, UK, 2017-present

- Awarded scholarship for academic achievements and extracurricular activities by the German Academic Scholarship Foundation (Studienstiftung des deutschen Volkes)
- Current predicted grade: 1st (83% average)

Abitur – Ursuline High School for Girls, Cologne, Germany, 2017

- Graduated with 1.0 average grade, advanced level subjects: Mathematics (15/15) and Physics (15/15)
- Awarded the German Physical Society's prize for outstanding achievements in physics
- As an active member of the school's robotics club I worked at developing autonomous robots in the four final years of school

EXPERIENCE

European Astronaut Centre (EAC), Data Analysis Intern, Cologne, Germany, July 2018

- One-month work experience with the European Space Agency's Space Training Team
- Investigated visualisation methods for a database of more than 12,000 ISS procedures
- Developed an interactive html representation of the procedure connections aiming to make the links useful for procedure management

The School of Joy "AL-FARAH", Teaching Assistant, Bethlehem, Palestine, October 2016

- Volunteering at a school for slow learners as teaching assistant in English classes and helped children with special needs with their studies, did an Arabic language course beforehand

World Organisation for Animal Health (OIE), Intern, Paris, France, June 2015

- Two-week internship followed by working as assistant at the global conference on biological threat reduction
- Organised and ran the conference poster session, edited posters and PowerPoint presentations

PROJECTS

Edinburgh University Engineering for Chance, Project Cambodia Leader

September 2018 – present

- Organised the application process and interviews for selecting the project team
- Responsible for preparing the journey in June 2019 and communicating with the local NGO in Cambodia which includes organising fund raising and booking flights

Edinburgh University Electronics and Electrical Engineering Society, Social Secretary

May 2018 – present

- Founded the society in my first year at university together with fellow students
- Contributed to setting up society structures by working on the constitution
- Elected to be the first Social Secretary, aiming to create a friendly, professional and close community by organising various socials and academic families
- Organised sponsorship for the society with pubs in Edinburgh

HYPED – The University of Edinburgh Hyperloop Team

September 2017 – July 2018

- Worked in the team that participated in the 2nd Hyperloop SpaceX-Competition
- As part of the Electronics Controls team, I designed the accelerometer PCB that was used for navigating the pod working together with the Software team

CanSat Competition

February 2015 – June 2016

- My team won the German CanSat competition and came second in the European finals
- Designed a satellite prototype that was dropped from about 1000m height and carried out a self-developed scientific mission
- Main responsibility was the electronic and software design of the satellite as well as fundraising and publicity work

SKILLS

Programming Languages

C

Introduced to C Programming in Computer Programming Skills and Concepts (final grade: 97%). Used C in coursework projects to build spell-checkers and a cache simulator.

Java

Learned java in Object-Oriented Programming class (final grade: 99%).

Assembly (MIPS)

Used MIPS assembly language for coursework projects for Introduction to Computer Systems class (final grade: 79%, MIPS coursework: 90%).

Git

Participated in a git workshop for HYPED members. Gained more experience using it for various projects.

MATLAB

Able to do basic calculations and plots. Currently improving my skills using MATLAB for this semester's Algorithms, Data Structures and Learning class.

HTML, JavaScript and CSS

Self-taught web development skills. Completed online html and JavaScript courses and worked on small projects.

Electrical Design

Altium Designer

Designed the accelerometer circuit and PCB for HYPED. Able to create components, design a circuit and assemble the PCB.

LTSpice

Used for designing and simulating circuits for Laboratory classes.

CAD Software

OpenSCAD

Used OpenSCAD to design CAD modules in my school's robotics club. Designed wind turbine prototypes and used a 3D printer built by teachers to print them.

LANGUAGES

German (native)

English (fluent)

French (intermediate)

INTERESTS

Mountaineering

Rock Climbing

Horseback Riding