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# Simon Kaufmann

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## SKILLS

C/C++, Python, Java, Linux (Debian), ARM/AVR Microcontroller, CEPT Amateur Radio Licence

## EMPLOYMENT

### University of Edinburgh - *Academic Tutor*

SEPTEMBER 2018 - PRESENT

- Taught a group of students for the first year course “Introduction to Computation”
- Topics include: Haskell, Logic, Finite State Machines and Regular Expressions

### Aceso, Edinburgh - *Internee Applications Engineer*

JUNE 2018 - PRESENT

- Developed and tested data logger based on ESP8266 microcontroller to monitor data centre air conditions
- 60 finished devices shipped to customer in September 2018
- Finished reflection project for university about communication skills, progress within company, project documentation etc.

Technology: C/C++ (Arduino), Python, MQTT, Web: Grafana | [www.aceso.no](http://www.aceso.no)

### LIST Engineering OG, Innsbruck, Austria - *Programmer for Embedded Systems*

OCTOBER 2014 - JULY 2016

- Programmed firmware for a energy consumption measurement device which helps companies increasing their energy efficiency
- Set up Internet of Things data logging stack based on the Thingspeak dashboard

Technology: C (Linux, Cypress PSoC ARM), C++ (Arduino) | [www.list-engineering.at](http://www.list-engineering.at)

## EDUCATION

### University of Edinburgh - *BSc Computer Science and Mathematics*

SEPTEMBER 2017 - JUNE 2021 (expected year of graduation)

Selected First Year Courses:

- |                                       |                                      |
|---------------------------------------|--------------------------------------|
| • Functional Programming: 100%        | • Object Oriented Programming: 100%  |
| • Computation and Logic: 100%         | • Data and Analysis: 94%             |
| • Introduction to Linear Algebra: 99% | • Calculus and its Applications: 87% |

### HTL Anichstrasse, Austria - *Secondary College for Electronics and Computer Engineering*

SEPTEMBER 2011 - JULY 2016

Reife- und Diplomprüfung (Highest Grade “Sehr gut” in all subjects during all five years)

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## EXPERIENCE

### **MathPALS Leader**, *Peer Assisted Learning Support*

SEPTEMBER 2018 - PRESENT

- Supported first year students taking mathematics courses
- Led a group of 15 students
- Organised one session a week with exercises and the opportunity for students to ask questions and discuss content among each other

**Skills:** Leadership, Teamwork, Teaching

### **CreatED 2018**, *First Student Run Hardware Hackathon in the UK*

APRIL 2018

- Part of the organising team for CreatED, a 24 hour hardware hackathon with 130 participants and more than 10 different sponsors
- Organised and ran three different programming and electronics workshops during event

**Skills:** Teamwork, Public Speaking, Time Management | [createdhack.github.io](https://github.com/createdhack)

### **Workshop Coordinator** *for University of Edinburgh Embedded and Robotics Society*

JUNE 2018 - PRESENT

- Delivered workshops to introduce interested students to programming and electronics
- Topics include: Line Follow Robot, Internet of Things, Introduction to Electronics

**Skills:** Public Speaking, Teaching, Electronics and Programming | [www.ears-edi.com](http://www.ears-edi.com)

### **Author and Podcast Creator** *for Edinburgh University Science Magazine EUSci*

SUMMER 2018

- Published article about Machine Learning in EUSci Issue 23
- Set up a new podcast in addition to the magazine (Release September 2018) featuring interviews with academics and professors from the university

**Skills:** Writing, Interviewing, Project Management | [eusci.org.uk](http://eusci.org.uk)

## PROJECTS

### **RF-Transmitter** *for Amateur Radio Direction Finding*

SEPTEMBER 2015 - MAY 2016

- Developed a transmitter for ARDF competitions used by the local amateur radio club in Austria as final year project for HTL Anichstrasse

**Technology:** C (Atmel AVR), Python (Linux, wxWidgets) | [github repository](#)

### **EMG Muscle Therapy Device** *for the Austrian NGO “Kindern eine Chance”*

OCTOBER 2014 - JUNE 2015

- Developed a device using electromyography for a school in Uganda supported by the NGO “Kindern eine Chance” (German for “A chance for children”) helping children to recover after injuries

**Technology:** C (GTK+, Linux on Raspberry Pi), C (Cypress PSoC) | [github repository](#)