

Lauren Brown

SOFTWARE ENGINEER · ELECTRONIC ENGINEER

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Skills

Programming	Rust, Python, C, C++, Java, LUA
Hardware Engineering	Digital Systems Engineering, Analog Design, PCB Design
Project Management	Project Planning, Software Engineering, Systems Administration

Education

University of Surrey

Guildford, England

MENG ELECTRONIC ENGINEERING (CURRENT STUDENT)

Oct. 2014 - Aug. 2015; Oct. 2018 - Present

Expected to Graduate in July 2021 with a 2-1 class Master's degree. Bachelors thesis in adding Live Patching to FreeRTOS

Kennet School

Thatcham, Berkshire, England

4 A LEVELS

Sept. 2012 - Jul. 2014

Computing · Physics · Mathematics · Further Mathematics

Experience

Fast Forward Imaging GmbH

Berlin, Germany

HEAD OF HARDWARE DEVELOPMENT & SOFTWARE ENGINEER

Mar. 2017 - Feb. 2018

- **Technologies:** Python · Ruby · C (Embedded) · PCB Design · Digital Electronics · Server Administration
- Lead an initiative to augment product with 3D capabilities.
- Worked with customers to implement custom features on existing products.
- Responsible for systems administration duties of the company's entire server and cloud infrastructure.
- Worked in a team, and with manufacturers to produce documentation and solid designs aiding in transitioning to external production.
- Lead product support team, including remote and in the field debugging of products.

Botspot GmbH

Berlin, Germany

HARDWARE & SOFTWARE DEVELOPER

Nov. 2015 - Mar. 2017

- **Technologies:** C, C++ · LibUSB · PCB Design · Digital Electronics
- Designed Control hardware, software, and networking for new Generation of 3D scanners.
- Designed camera control software from scratch (C++, LibUSB) to work with proprietary cameras.
- Provided upgrades to existing Products to improve their reliability and lifespan.

AWE

Aldermaston, England

INDUSTRIAL PLACEMENT (SUMMER INTERNSHIP)

Aug. 2015 - Oct. 2015

Electronics Work. Details protected under confidentiality agreements.

Extra Curricular

Synthesiser and Electronic Music Society

CREATED AND RAN A SOCIETY AT SURREY UNIVERSITY'S STUDENTS UNION

Supporting students in creating DIY musical instruments.

Lab PALS scheme

VOLENTTEERING IN UNDERGRADUATE LABS

Supporting teaching, by providing assistance to students in regular lab sessions

Libreflip

OPEN SOURCE BOOK SCANNER - LEAD ELECTRONICS ENGINEER.

Team Project to create an automatic page turning book scanner.

Personal Software projects

I CREATE OPEN SOURCE SOFTWARE IN MY FREE TIME:

github.com/IIBC

- **idetestjig** (C): Building a bit banged IDE interface on an STM32. (For use in an audio recorder.)
- **Rustic Zen** (C++ + Rust): Optimising then Reimplementing an artistic ray tracer first in C++ then Rust.
- **Neotron** (Rust + KiCAD): Contributing to the development of an open MCU based SBC, with rust firmware.
- Founding Member of the Rust **Retro Technologies Working Group (RWG)**, an unofficial working group with the goal to bring rust to as much outdated hardware as possible.
- **SegNAND** (Electronics) & **Audio-AF** (Rust) (Just Started): My experiments with electronic music, trying to make interesting sounding instruments.

Active Chaos Computer Club (CCC) Community Member

Ask For "SEGFAULT"

Until returning to university I was a regular contributor to Berlin hacker-spaces.

Other Skills

Holds full UK Driving licence

Speaks native English and limited German

Has been "Daily Driving" Linux for almost 7 years