Luca Mehl

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Education

2020-2023 BEng Computing Imperial College London (2nd Year)

- Modules include Logic & Symbolic Reasoning, Operating Systems, Compilers, Algorithms, Discrete math, etc.
- Regularly worked in small groups of 2-4 for up to 3 months, and had hands-on experience planning, building, and delivering projects, as well as with key technologies such as version control in Git and continuous integration / automated testing.

Projects

- **PintOS Operating System**
  - Built a primitive UNIX operating system in C, implementing scheduling (priority donation and multilevel feedback queue scheduling), user/kernel partitioning and system calls, and virtual memory, from scratch in a group of 4 over a 3-month period.
- **ARM Assembler & Emulator**
  - Created a fully functional ARM assembler and emulator written in C according to the ARM specifications, in a 4-person group over 2 months.
- **IC Hello World Hackathon**
  - Designed a green investing web app for profitable and green stocks based on a combination of indexes, built with a React frontend and Python Flask backend.

2013-2020 International School of Geneva, Campus des Nations

- IB Bilingual Diploma: **44/45**
- Higher level courses: Math (**7**), Physics (**7**), Geography (**7**)
- Standard level courses: Chemistry (**7**), English A (**7**), French A (**6**)

Work Experience & projects

Autonomous Weather Station

- Multi-year (ongoing) project to build an autonomous high-alpine weather station, employing highly optimized low-power circuits & sensors, LoRaWAN for IoT, and solar power for electricity generation.

MIT Unmanned Autonomous Vehicle Synthetic Aperture Radar

- Scored first place in a project to build a multicopter-mounted radar imaging system, processed with a Raspberry Pi. Completed in a 4-Person team over 1 month.

Internship at CERN

- Interned at the CERN web dev. department and was embedded in 2 Scrum teams building data visualization tools and user interfaces.

Programming languages

- Preferred: C, Kotlin, Java, Python, Haskell
- Familiar with: PHP+SQL, Bash, HTML+CSS+JS

Additional Skills

- Cyber Security (UK Gov't CyberStart Essentials)
- Significant experience using and programming low-power microcontrollers (e.g. Arduino) and peripherals

Interests

- Active member of the IC Mountaineering Society and the Caving Society and highly involved with the Imperial Advanced Hackerspace and IC Robotics Society