BEN STEEL

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EDUCATION

University of Bristol *Sep 15 - Jun 19*
M.Eng. in Computer Science and Electronics
Current Grade: First Class (86%)
Awards: Alumni Academic Achievement Award for top 3 performance in Faculty of Engineering in first year

Exchange Year at McGill University *Aug 17 - May 18*
GPA: 3.52

EXPERIENCE

Biosignal Interaction and Personhood Technology Lab, McGill May 18 - Aug 18
Android Developer *Montreal, Canada*

- Lead developer on Biomusic Android app, creates biosignal derived music for improved patient/carer relations.
- Worked with contracting backend developer to add cloud database storage functionality using MySQL, and offline storage using the Realm android library to the app
- Created data visualisation GUI for biosignal data using Android Studio.
- Prototyped signal processing algorithms in MATLAB and Python using machine learning techniques, and implemented in app.

Visual Systems Lab, McGill Sep 17 - Apr 18
Research Assistant *Montreal, Canada*

- Used MATLAB for data visualisation to reveal underlying trends in neurological data.
- Used local SGE computing cluster system to improve processing times due to size of datasets (order of TBs).
- Became familiar with Bash to move and manipulate datasets, and gained competence in using Unix based operating systems.

Control Techniques Ltd. Jun 16 - Aug 16
Summer Intern *Newtown, Wales*

- Learned how to effectively layout and track PCBs for electrical drives, using industry level software.
- Also worked in safety team, debugging an ARM microprocessor via JTAG.
- Learned how to become an effective team worker in an industry setting.

GROUP PROJECTS

Embedded Gesture Recognition using Neural Networks Feb 18 - Mar 18

- Implemented neural network and back propagation algorithms on embedded system using LabView.
- Created motion dataset and explored NN solution space to achieve high accuracy digit gesture recognition.

Face Detection and Age Classification using OpenCV Dec 17

- Used Viola-Jones algorithm to detect faces and extract features from photos, using OpenCV in Python.
- Experimented with machine learning techniques to classify age from extracted features, using scikit-learn.

Peak Detection using an FPGA Jan 17 - Feb 17

- Used VHDL to design and implement peak detection and extraction on serial data, on an FPGA.

SKILLS

Computer Languages Python, Java, MATLAB, C/C++, VHDL, Bash, HTML/CSS
(in order of decreasing competency)
Software Android Studio, Eclipse, Visual Studio, Ubuntu, Git, LaTeX, LabView