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.

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
Software	Android Studio, Eclipse, Visual Studio, Ubuntu, Git, LaTeX, LabView