

Joe Barrett

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Education

Edinburgh Napier University
2013–Present

BEng(Hons) Software Engineering
Predicted 1st

University of the Highlands and Islands
2012–2013

HNC Computing
Pass

Major Projects

Dissertation - Calculation of Mountain Bike Suspension Setup through Mobile Image Analysis:

- In Progress
- Use of image analysis and user supplied information to calculate optimal suspension settings
- Building mobile application for Android platform
- Using Open CV library image processing library
- Languages: Java, C++

Helmet Crash Sensor:

- Created helmet mounted device and accompanying Android application
- Detection of certain criteria signals a crash and sends SMS to emergency contact
- Use of 3D trigonometry to calculate orientation using accelerometer and gyroscope data

Mountain Bike Suspension Data Logger:

Employment

Cadence Design Systems

Intern

May 2016–September 2016, Livingston

- Maintaining and adjusting performance tests for Virtuoso software
- Wrote performance testing suite in Python, including automated emailing, data analysis utilities, and automatic debugging
- Notified engineers on failing tests and assisted in debugging
- Created performance tests to compare product platforms using Cadence's SKILL language
- Presented during internal conference for interns and summary of work at end of internship

Edinburgh Napier University

Student Demonstrator

January 2016–May 2016

- 2nd year Mobile Applications Development
- Assisting lecturer during practical sessions
- Answering questions from students related to mobile programming
- Presented during lecture on previous year's coursework

C&G Cycles

Assistant Manager and Mechanic

January 2014–January 2015, Edinburgh

Twelve50 Bikes

Workshop Manager and Sales Assistant

April 2011–June 2012 & May 2015–August 2015, Frodsham

Cheshire Oaks Cycles
March 2010–April 2011, Ellesmere Port
Graham Weigh Cycles
October 2007–June 2009, Queensferry

2nd Mechanic and Sales Assistant

2nd Mechanic and Sales Assistant

Skilled Training

Cycle Scotland
April 2016, Edinburgh

Cycle Assistant Qualification

Coed y Llandegla Courses
February 2011, North Wales

CTC Trail Leader Qualification

Whistler Blackcomb
August 2009, Whistler, Canada

Instructor Development Programme Level 1&2

Institute of Leadership and Management
August 2009, Whistler, Canada

Level 3 Award

Cycle Wales
October 2007, North Wales

City and Guilds: Cycle Maintenance

Skills Profile

Languages.....

Java: Intermediate

Classes, Multithreading, Design Patterns, Swing

Python: Intermediate

Lambda functions, List comprehensions, subprocesses

C: Basic

C++: Intermediate

C#: Intermediate

Android: Intermediate

Bash/CSH/ZSH: Basic

General Computing.....

Linux: Everyday usage

Micro-controllers: Test

Test: Test

Test: Test

Interests and Achievements
