Benedict Falconer

Name	Benedict Falconer	Sex	Male
Address	149 Sir Henry Parkes Rd.	Date of Birth	28/06/1987
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	West Midlands	Driving License	Full
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Education

University of Warwick

Computer and Information Engineering MEng: 2:I

Engineering PhD: Thesis submission in progress.

PhD research interests

My thesis title was: A system for remotely taking high velocity, large scale, PIV measurements in a hostile environment.

The system I designed utilised a network of 8 computers spread over an industrial site to take measurements upon the flow behind a jet engine. Using the computer system to interface directly with the measurement hardware (namely four cameras, three high power lasers, and numerous servos) allowed the system to be operated semi-automatically. Much of my PhD involved being on site and having to adapt to problems and alterations in the specifications at short notice with limited resources to hand.

Undergraduate modules

Simulation of Operations, Internet Enabled Engineering, Instrumentation & Measurement, Optical Communication Systems, Remote Sensing and Global Modelling, Signal & Image Processing, Wireless Communications

Computing Experience

Languages

I have been pursuing an interest in programming outside education for the last fourteen years. I originally started programming in **Pascal** to learn the basics and quickly moved on to **Delphi** for visual applications. Since then I have written a large number of programs in **C++** using **Boost**, **Qt**, **SFML**, and other third party libraries for platforms including **Windows**, **Linux**, **Nintendo DS**, **Arduino,** and several microprocessors including circuits for them to be utilised in. I also have experience with **bash**, **python**, **perl**, and **lua** for scripting.

I am competent with **HTML**, **CSS**, **PHP**, and **node.js** and have written web pages both for my own use and for other clients using **JavaScript** both with and without **jQuery**.

Within my other projects, I have also utilized various database software including **MySQL** and **MongoDB**.

System Administration

I was the Technical officer for the Warwick Computing society for one year and on the Tech Team for an additional 4, which involved in depth system maintenance of several servers running **Debian**. Solving problems with **RAID** and **LVM**; mitigating security breaches; configuring **Apache**, **BIND**, **Postfix** and various other software; and setting up new servers were all involved.

I am also familiar with both **Windows** and **OSX** for day to day usage and common tasks such as installation, maintenance, task scheduling and scripting.

Awards

Warwick Engineering Departmental Prize	2010
Madras College Technological Studies Prize	2005
Duke of Edinburgh's Award	Gold: 2005, Silver: 2004, Bronze: 2003
UK Mathematical Challenge Gold Award	2002, 2004
Scottish Mathematical Challenge Gold Award	2000, 2001, 2002, 2003

Work

September 2010 – September 2011	Warwick University with QinetiQ	Designing and implementing computer systems for use in Particle Image Velocimetry (PIV).
August 2009 – September 2008	London Knowledge Lab	Web development on the XWiki platform using Java and an in house scripting language.
September 2005 – May 2006	Fluid Gravity	Computational fluid dynamics work with computer simulations and presentation work. Gap year job working closely with the other employees.
September 2001 – July 2005	Oxfam	Voluntary work serving public, banking money and sorting goods.

Other Positions

Computer society tech team	I have been one of the 3 administrators for our computer society servers, which includes maintenance of our member's server, setting up infrastructure for LAN parties and creating our web page.
Mountain leader	I have taken the British Mountaineering Council Mountain Leadership training and regularly lead walks of small groups of people from the university mountaineering club
Society exec	Warwick Computing Society: Technical Officer – 2011/12; Socials Officer – 2012/13 Warwick Mountains: Webmaster and Secretary – 2007/8/9 Go Society: Secretary – 2009/10

Hobbies and interests

Computing, long distance walking, rock climbing, mountaineering, skiing (NZSIA level 2 instructor), Go (4 Kyu), Lego.

Wealden Waters 100km walk, completed in 22 hours, October 2003.

Northumberland 100 mile walk, completed in 34 hours, May 2006.

3 Rings of Shap 100km walk, completed in 25 hours, June 2010.

References

Available upon request.