

# Ed Waugh

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## Profile

A highly motivated graduate with a wide range of skills gained in both technical and management roles. Able to work effectively on own initiative and as part of a team. Proven leadership skills from academic projects that involved managing and motivating teams to achieve their objectives. First-class analytical, design and problem solving skills developed at University and practiced in a commercial environment.

## Academic Information

### Engineering Doctorate, Southampton University, 2005→

- Design and development of an Unmanned Aerial Vehicle for oceanographic science
- Focus on reliable electronic and software systems
- Senior engineer on electronics for chemical sensors project
- Responsibility for planning and management of student projects
- Substantial experience writing MISRA compliant C for ARM7 and Microchip PIC architecture, Windows application development in C#, MATLAB for data analysis and, Schematic design and PCB layout using OrCAD

### First Class MEng Electronic Engineering, Southampton University, 1999→2003

- Institute of Engineering and Technology accredited Master of Engineering course
- Nominated to lead fourth year design project to manufacture a prototype UAV with six other engineers from the faculty of engineering, the group was presented the Accenture award for the best engineering project that year
- Modules studied include: Digital System Design (VHDL, ABEL), Materials and Processing Devices, Computer Graphics (OpenGL), Computational Modelling (MATLAB), Software Engineering (C/C++) and Analogue Systems (PSPICE)

## Skills

- Highly effective communicator orally and in writing
- Excellent computer skills including use of all major office 2007 applications
- Experience supervising more than 30 undergraduate students over four years
- Experience of leading a successful multi-disciplinary project
- Basic conversational Spanish
- GCSE in French

## Employment History

### UAV systems developer, National Oceanography Centre, 2004→2005

- Lead engineer on project to develop a UAV for oceanographic science
- Designed and built embedded solutions using SPICE, C, ABEL and OrCAD
- Managed and supported student groups working on the project

### Sailing Instructor, Neilson Active Holidays, 2003→2004

- Worked two summers teaching dinghy sailing and windsurfing in Spain and Croatia
- Improved communication and public speaking skills
- Improved Spanish language skills

### Engineer, Multiple Access Communications Ltd, 2002 & 2003

- Collected data and optimised a signal propagation tool for 3<sup>rd</sup> generation mobile phone frequencies
- Gained experience in the principles of radio signal propagation in an urban environment and applied this knowledge to the collection of accurate data
- Used C++ to adapt and extend existing software to increase data processing efficiency
- Calculated statistics about the data using Matlab for use in optimising the propagation algorithm

## Interests

- Windsurfing on a regular basis around the south coast
- RYA dinghy sailing instructor
- Member of local softball team
- Watching movies and reading fiction

References are available on request