

**1996 - 1998, St.Austell College, St. Austell, A-Level, obtained 24 points**

Electronics B Maths B Physics B

**1998 - 2002, University of Southampton, Southampton**

2:1 Masters in Electronic Engineering with Honours

**2002 - 2007, University of Southampton, Southampton**

Currently studying for a PhD in Bio-MEMS

**SKILLS**

**Development of MEMS devices**

- Design and simulation of MEMS devices
- Produced micro fabrication processes to achieve electro magnetic, fluidic MEMS devices
- Designed and produced masks for fabrication process using L-Edit
- Knowledge and experience of MEMS micro fabrication techniques

**Characterisation of MEMS devices**

- Experience of Labview in producing software to control MEMS devices
- Designed and built electrical systems for the actuation of piezo electric and resistive MEMS elements
- Built an interferometer to measure the dynamic deflection of a micro pump diaphragm

**Computing**

- Microsoft Word and Excel, Latex
- FEMLab, Ansys, Matlab, LAbview

**Numerate**

Both of my degrees required candidates to be highly numerate. I have always exceeded required standards for mathematic elements.

**Organisational**

The nature of my PhD has ensured that I am organised. I have had to plan my time to ensure that I complete internal reports, conference and paper deadlines.

**EMPLOYMENT**

**1998 - 2005 Pizza Hut, Portswood, Southampton**

As a delivery driver I was responsible for dispatching each delivery and ensuring it was delivered to the correct customer. Everyone during the shift worked as a team to ensure this was achieved. I learnt how to communicate effectively with people I worked with and the customers we served.

### **2002-2004 Demonstrating, University of Southampton,**

Postgraduate demonstrators are required to be present in undergraduate laboratory sessions, to guide the students in given tasks. This required planning prior to the session and the use of knowledge and skills gained during my undergraduate degree.

### **2001 - Zarlink, Tamerton Road, Roborough, Plymouth, Devon, PL6 7BQ**

Zarlink carries out the design, fabrication and testing of silicon devices. I learned how to design and carry out test strategies, as well as gaining good communication skills. At the end of the placement I gave a presentation to my peers, describing the projects I had been working on.

### **2000 - Tecker Ltd, Tregonigie Industrial Estate, Falmouth, Cornwall**

Tecker is a small company, of approximately 80 people, but is still able to handle million pound contracts. I learnt about the company structure and how a relatively small company handles all aspects of every day business. My duties included preparing material for customers and providing assistance to both the clerical and procurement departments within the company.

### **INTERESTS**

#### **Kick Boxing**

I have been an active member of the kick boxing club at the University of Southampton for 2 years; training twice a week. At present I have attained a yellow belt. During the class we learn aspects of Kick boxing, Kung Fu and self defence techniques.

#### **Motorcycles**

I enjoy riding and understanding how motorcycles work. I own both a modern Kawasaki ZX636R and an old KH250 2-stroke triple, which I am restoring.

#### **Gym**

To improve my strength and fitness for both kick boxing and general living, I use the University gym on a regular basis.