

## **Craig Robert Carnegie**

### *Home Address:*

2 Hop Garden  
Church Crookham  
Fleet  
Hampshire GU52 OYL  
Tel: 01252 815789

Tel: 07746245147

### **Personal Statement**

I am a logical thinker, with a keen interest in mathematics and strive to see problems through to completion. I work well with all levels of staff within a company, working proficiently in a group and also extremely well under my own initiative, but I am not scared to ask for support or advice when it is required. I see myself as an excellent communicator and am not afraid to lead. I have had vast experiences with computers and am very able to use a wide selection of programs.

I am currently extensively using the FEA package LS-DYNA. Modules I most enjoyed and achieved highly in during my undergraduate were Computing 1, Computing 2 and Integrated Building Design. The computing modules incorporated programming in C++, the building design required extensive use of Autodesk, specifically Revit MEP, design software used to model the building including all mechanical and electrical services.

### **Education**

*20012-2016 Warwick University, Warwick Manufacturing Group, Engineering Doctorate (Int.)*

Currently in the second year of a four year course.

Research Title:

Simulation of High Strain Rate Deformation in Structural Polymeric Foams

*2008-2012 Cardiff University, School Of Engineering, MEng Mechanical Engineering*

Masters with Honours, graded at a 2:1.

*Dissertation Titles:*

Numerical Modelling and Experimental Analysis of Bead Design on Grinding Efficiency

Integrated Building: Hospital Design

Renewable Energy: Wind Turbine Design

*2005-2007 Farnborough 6<sup>th</sup> Form college*

GCE 'A' Level: Mathematics [B], Physics [C], Computing [C]

GCE 'AS' Level: Economics [D], Further Mathematics [E]

*2000-2005 Court Moor School, Fleet*

AVCE Level: Information Technology [A]

GCSE: Eng Lang [A], Eng Lit [B], Geography [B], Mathematics [A], Business Studies [B], IT [A\*],

German [C], Religious Studies [A], Biology [A], Chemistry [C], Physics [B]

### **Work Experience**

*Access Era Technology Summer 2006 [6 weeks]*

Over the summer of 2006 I worked as a data analyst for Access Era Technology. The role required me to check the company's client database whilst updating it where ever necessary. To carry out this process I meticulously read through individual feedback from the customers, to ensure they received all the information they desired or edited their information as they wished. I had to adapt to using the company's tailored client database software under guidance from the team.

Personally, I had to integrate into the office team as rapidly as possible in order to maintain the smooth operation of the team. This role helped me improve on my communication skills twofold, the first being towards people in a position of authority. I had to report to a manager within the office as well as liaise with members of staff within the office. Secondly I had to interact with customers and talk them through their options. This meant I had to deal with a large variety of people and manage their mixed reactions whilst still keeping the company's objectives forefront. I feel that communication skills are a vital life skill and can be applied in numerous situations.

## **Skills**

I am continuously developing my skills in using Microsoft packages and other computer programs such as LS-DYNA, Solidworks, Auto Cad, Matlab, Patran and C++.

As well as speaking native English I also speak German up to GCSE level.

I have developed my presentation skills whilst at both Warwick and Cardiff. I have presented numerous projects in front of lecturers and industrial partners on my research, laboratory and dissertation work and in areas of engineering I have been interested in. To do this I have learnt to adapt to presenting to different audiences to get the desired information across effectively.

## **Interests**

**Societies:** In my final year of University I submitted a request to be the fourth year Mechanical Engineering representative. This role entails meeting with high ranking engineering staff to discuss issues brought to me by fellow students at Student Staff Panel meeting. I was also approached by the fourth year Medical Engineers to represent them, based on my excellent networking and communication skills with the students. As well as this I was chosen by the Head of Mechanical Engineering to Chair the meetings, this opportunity improved my listening and time management skills.

**Affiliations:** Having become an affiliate with the Institution of Mechanical Engineers I plan on becoming an Associate and working towards my Chartership.

**Music:** I have a keen interest in music. In recent years I have attended the Isle of Wight festival, where I enjoyed socialising and meeting new people.

**Sport:** I played for a 5-side football team last year and a 7-side team the year before. It is a great way to keep active and I enjoy the team work aspect. I joined the badminton society while at Cardiff University, where I played weekly.

**Electronic Sports:** With a few friends I have travelled around England competing in competitions as part of a team that I was captain of between 2007 and 2009.

**Logical Work:** I gain great pleasure from puzzle solving, whether it is mathematically based such as Sudoku, or gaming based on the internet.

## **Referees**

Dr G Evans,  
Cardiff School of Engineering,  
Cardiff University,  
The Parade, Cardiff,  
CF24 3AA  
Relationship: Tutor

Prof. R Dashwood,  
Warwick Manufacturing Group,  
Warwick University,  
Gibbet Hill, Coventry,  
CV4 7AL  
Relationship: Supervisor