

SCHOLARSHIPS AND AWARDS

- ERASUMS MUNDUS European Masters Scholarship - 2006
- Senior Prize in Computer Systems Engineering - 2004
- IEE Prize in Computer Systems Engineering - 2004
- Maurice Paykel Undergraduate Scholarship - 2004
- Waitakere Licensing Trust Scholarship - 2002
- ASB Bank Scholarship - 2002

PROFESSIONAL EXPERIENCE

The University of Auckland

Date: April 2006 - September 2006

Position/Title: Researcher and Tutor

Responsibilities:

Conducting research on the application of formal verification and validation methods to security in real-time embedded systems. In addition, the position involved producing and supervising undergraduate laboratories and tutorials.

Compac Sorting Equipment

Date: November 2005 - April 2006

Position/Title: Vision Systems R&D Engineer

Responsibilities:

Developing improvements to the existing 'inVision' system which grades and sorts fruit based on precision weighing, optical sizing and colour and blemish assessment. The software I developed extended the current system by using the images acquired of the rotating fruit to create a 3D model. Constructing a 3D model of each fruit enables more accurate mapping and tracking of surface features, improved classification of blemishes, and more accurate macro-fruit measurement. I worked on this project autonomously and developed valuable computer vision, problem solving and programming knowledge and skills.

Fisher & Paykel Appliances

Date: November 2004 - February 2005

Position/Title: Product Development Engineer (undergraduate)

Responsibilities:

As a member of the product development team I was assigned a number of different projects including: debugging/testing embedded software for intelligent interfaces, developing an application to remotely control and monitor a climate chamber and data logging equipment, developing PDA applications for servicing of refrigerator controllers, designing and constructing motor testing equipment for the production line, constructing and testing prototypes.

SUMMARY OF SKILLS

Non Technical Skills:

I have excellent communication skills, with fluent spoken and written English. I believe my positions as a Prefect and Peer support leader at Massey high school and Mentor and Tutor at The University of Auckland also reflect my excellent leadership and communications skills. I have also demonstrated the ability to co-operate and work well in a team in past design projects and extracurricular activities. My education and professional experience has also helped me to develop excellent problem solving skills and initiative.

Technical Skills:

I have extensive experience with using computer science and engineering software including Protel, EagleCAD, Pspice, VisualDSP++, VisualC++, Quartus II, ModelSim, MAXPlusII, MATLAB, and Codevision AVR. My studies and professional experience has included software design in C, C++, MATLAB, Python and Java. I have experience developing software for various microcontrollers and DSP's. I am also familiar with programming FPGA's in verilog and VHDL. Electronic circuit design, PCB design, circuit assembly, testing and control integration.

EXTRACURRICULAR ACTIVITIES

- Involved in many sports both competitively and socially including soccer, squash, sailing, surfing, tramping and kayaking

REFERENCES

- Both academic and professional references are available on request
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