

Michael Toal

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Objective Systems / Software Engineer in Signal Processing.

Qualities Excellent team-working and communication skills.
Good problem solving skills.
Motivated and willing to take initiative.
Flexible.
Full drivers licence
UK security clearance to secret.

Experience **2000–Jan 2005 BAE Systems Edinburgh, Scotland**
Senior Software Engineer
Image processing modelling of future missile system ([P.I.O.S.](#)).
Large scale Simulink / Matlab model working on several PCs performing parametric studies and testing against truth data.
Overall responsibility of model development and operation.
Development of image processing algorithms in Matlab.
Implementation of image processing algorithms on a High Performance Computer cluster, using Linux, Message Passing Interface (MPI) and Vector libraries.
Responsible for input into design decisions for next phase (including research on technologies: FPGA, and design methodologies).
Estimation of processor utilisation.
This project has culminated in a well received final report and presentation given in Eglin Air Force Base. The team has been highly praised and has received several internal awards.

1997-2000 BAE Systems Edinburgh, Scotland
Software Engineer
Development of a correlation tracker embedded software on Quad SHARC D.S.P.
Development of embedded programmer and boot loader.
Software written in C and SHARC assembly, maximizing use of multiple execution units.
Interface with FPGA.
Team Leader with design authority.

Experience

1994-1997 BAE Systems Edinburgh, Scotland
Design Engineer
Development of Test equipment to interface and test, military main equipment, both hardware and software.

1990-1994 BAE Systems Edinburgh, Scotland
Support Engineer
Defect and Investigation of Equipment Faults (found large cost savings in redesign of power supply).
Found cost saving in commissioning of Gyros, by recommending improvements in inertial navigation software, which allowed a relaxation of a Gyro drift tolerance spec.
Fault finding in inertial navigation software which fixed a major positional jump.
Worked as a team and alone, away from base (South of England, Germany and Oman), updating equipment.

1986-1990 BAE Systems Edinburgh, Scotland
Electronic Apprenticeship
4 Year apprenticeship including basic training, equipment commissioning, PCB planning, quality, product support.

Education

HND in Electrical and Electronic Engineering
Various Training courses including C, Structured Analysis and Real Time Operating Systems, DSP Design for Xilinx FPGAs

Interests

Listening to music especially live.
Home multimedia.
Socialising, football both watching and playing (5-a-side).
Travelling
Cycling.

DIY.

Referees available on request