

Michael Frank Evans

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Education

MSc in Computer Science (Hons)

Sept 1999 to June 2001

Dept. of Computer Science, University of Wales Aberystwyth

Part time MSc in computer science, this is an intensive course covering the majority of units normally taught in a three year computer science honours degree. Programming languages included Java as the core language with, C and SQL . The major project for the MSc course was a Point of Sale system for a small chain of stores. Honours project was a hyper spectral imaging system in collaboration with IGER in Aberystwyth.

BSc (Hons.) Environmental Pollution Science

1993 to 1997

Dept. of Applied Sciences, University of Glamorgan

I studied a wide range of subjects including; analytical chemistry, ecology, mathematical modelling, biology, environmental management, environmental law and impact assessment. I also developed microbiological and laboratory skills including aseptic techniques, slide preparation, gram staining, bio-sampling of rivers and invertebrate identification. Honours project was research into the effect of acidity on the adsorption of phenols on clay platelets.

HNC Mechanical engineering

1987

Llanelli College, Llanelli, Dyfed

Milford Haven Secondary School

1969 to 1974

Milford Haven, Pembrokeshire.

Professional Experience

Self Employed

30th September 2009 - present

Duties

- Contract maintenance work.
- Contract model making.
- Contract micro processor based projects.
- Other electro-mechanical contract work.
- Website development.
- Freelance programming in C and python.

Maintenance Engineer, Canaston Bowl.

9th April 2007 - 30th September 2009

Duties

- Engineering support of computer based interactive games system.
- Engineering support of bowling alley.

IT Technician, Pembrokeshire County Council.

22nd January 2007 6th April 2007

Duties

- Temporary post refurbishing PC's and installing software for schools.
- General IT support

Research Associate, UMIST

1st April 2002 to 31st March 2005

Dept. of Chemistry, UMIST, Manchester

Responsible to: Professor D.B. Kell

Duties

- Design and development of a non-linear dielectric spectrometer for the non-invasive

measurement of blood sugar in humans.

- The research was targeted toward the eventual production of a system for home use by diabetics. The spectrometer consists of PC software, written on Borland C++ Builder, and front-end analogue electronics attached to the PC via a digital signal processor card. The system utilises the R application for performing statistical analysis on the resulting data sets.
- Collection of the experimental data for later analysis.
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Achievements:

- The work revealed promising results and part of the project has now been taken on by an Irish company intending to develop a blood glucose measurement system.

Electronics Technician, Aber Instruments

September 1997 to 1st April 2002

Science Park, Aberystwyth, Ceredigion

Responsible to: Production Manager

Duties

- Building and testing biological instrumentation (Biomass monitors) mainly targeted to the brewing industry.
- Responsible for the production, documentation control and quality control of two product lines.
- Involved in all areas of the process of building, testing and fault finding.
- I was the leading mechanical draughtsperson using AutoCAD-LT.
- Providing network support for a Linux-SAMBA file server, firewall and mail server for 20 Windows 95/98 PC's.

Achieved

- Implemented an automated networked testing and data recording system using a Linux server connected to a data collection system to replace the paper chart recording system previously used.
- During my employment as Aber Instruments I studied part time for, and obtained, an MSc in Computer Science at the University of Aberystwyth.

Studied full time for BSc Environmental Science

1995 to 1997

University of Glamorgan

Part time Lecturer, Pembrokeshire College

1993 to 1995

Haverfordwest, Dyfed

Responsible to: Head of Department

Duties:

Part time lecturing mechanical and production engineering at National Certificate level, teaching a variety of engineering based subjects.

This was at the same time as studying for the first year of my degree course.

Motorcycle Mechanic, Garland and Griffiths Motorcycles

1990 to 1993

Haverfordwest, Dyfed

Responsible to: Garland and Griffiths

Duties

- Repair and servicing of modern, high performance motorcycles.
- Additional to mechanical engineering skills this position required good communication skills imperative to provide the expected service to customers and organisational skills were required for maintaining stock and keeping accounts.

Mechanical Engineering, Ministry of Defence (Navy)

1974 to 1990

Milford Haven, Dyfed

Responsible to: Production Manager.

Duties:

- Various posts, starting as an apprentice mechanical technician.
- Workshop machinist, quality control technician.
- Workshop supervisor of 50+ craftsmen of various disciplines.
- Other details subject to Official Secrets Act.

Publications

“Nonlinear dielectric spectroscopy”, 2003, Proceedings of the Conference “Nonlinear Dielectric Spectroscopy”, Waclev, Poland.

Other skills

Use of MS Windows & Red Hat Linux. Auto CAD for Windows. Programming in Java, Python, C and C++. network systems using Samba LAN server, mail server and Apache Web server configuration. Web page authoring using PHP, MySQL and smarty. Installation and set-up of computer hardware. Development of hardware and software for a Motorola M68HC11 8 bit processor based environmental monitoring system written in C and cross compiled. Shell scripting in Linux. Several Atmel microprocessor based projects. Contributor to GnuCash, a free accounting programming.

Interests and activities

I hold a clean drivers licence, I occasionally play the blues on guitar, I am a big fan of Gary Larson's Cartoons and I race big yachts.