

# STEVEN SWANN BEng MIET

2 St Augustine Gardens, Southampton, SO17 2XA  
07877 678673; swannonline@googlemail.com

[www.swannonline.co.uk](http://www.swannonline.co.uk)

---

An versatile, enthusiastic, self motivated graduate electronic engineer committed to developing a career in computer systems development with a particular interest in embedded Linux systems.

---

## EDUCATION

### **BEng Electronic Engineering (2.1) Southampton Solent University**

*Oct 2008 – June 2011*

*Modules undertaken include:*

- Mathematics; digital & analogue electronics; solid state electronics; control theory & communications; digital signal processing; computer networks; industrial applications of computer systems; entrepreneurship.

*Actively involved in a number of design projects, including:*

- A group task to design, implement, test a polar infra-red data acquisition system;
- The design and testing of a number of analogue amplifier circuits;
- Analysis and design of a card production plant's computer infrastructure.

*Final year project: Using a distributed computer network to track a vehicle and goods in transit*

- Designed and built a custom Linux operating system to create an ARM based tracking system, designed to improve customer service in a small removals business by enabling goods tracking, progress updates & safe driver-customer communications;
- GPRS device sent data to central monitoring server; Drivers' terminal received GPS data.

**A-Level:** Maths B, Electronics A, Computing A; **GCSE:** English A Cornwall College *Sept '03 - June '05*

**City & Guilds:** Coding & Programming in 'C'

Barnet College, London *Sept '98 - June '99*

**9 GCSEs** including Mathematics C

The Compton School, London *Sept '92 - June '97*

## PROFESSIONAL DEVELOPMENT

PRINCE2 – *Registered Practitioner*

*Dec 2011*

CMI Management and Leadership: *2 residential courses completed and approved*

*Feb 2012*

Coding Efficiently in VIM - *workshop*

*Nov 2012*

Understanding Perl Regular Expression REGEX - *workshop*

*Sept 2012*

## SKILLS & INTERESTES

- Highly competent in Linux, Windows, and Mac OSX operating system management;
- Broad knowledge of networking the above operating systems; I maintain a home network allowing file and printer sharing hosted on a custom designed server;
- Competent with a wide variety of bench tools: oscilloscopes, spectrum analysers, signal generators, digital signal analysers and soldering iron;
- Programming skills:
  - Experience with: C, Assembly language – ARM, 8051, AVR and PIC, PHP, HTML, CSS, MySQL, Bash, XML;
  - Exposure to: C++, C#, Java, Visual Basic, Ruby, Python, VHDL, UML;
  - CAD skills: Pspice, gEDA, Matlab, Octave, MPLab, AVR Studio, Modelsim;
  - Office skills: OpenOffice, LaTeX, Scribus, Microsoft Office;
- Regularly contribute to Linux forums, and the Ford Transit forum;
- Develop [www.swannonline.co.uk](http://www.swannonline.co.uk) to detail my programming and construction projects;
- I enjoy music, playing guitar, reading, travelling, gardening and cooking.

## **EMPLOYMENT**

### **Lead Software Developer - KTP Associate**

*Sept 2011 – Feb 2013*

University of Portsmouth & Karisgroup Ltd

- Carried project from initial conception to prototype whereby these system could be demonstrated.
- Designed and developed embedded and server based software systems to allow the remote monitoring of those in need of care;
- Managed project software development cycle from requirements analysis to software testing;
- Developed software for a remote embedded ARM9 system incorporating a custom Buildroot Linux operating system;
- Wrote Linux drivers for ZigBee integration and basic hardware devices: push-buttons, LEDs, etc;
- Developed a number of C based client and server application integrating various open-source libraries, including PJSIP, libxml, TCP/IP socket programming;
- Developed a number of Drupal based websites with custom PHP modules;
- Developed system relational MySQL databases, integrated into a custom Drupal 7 user front-end.

### **Website Developer**

*June 2011 – Present*

The Mammal Society, Southampton

- Designed, implemented and now maintain the current charity website on contractual basis;
- Liaised with the charity to provide a full requirements analysis ensuring a realistic, suitable design;
- Developed a web-based MySQL database as a new, easy tool for members to submit their projects;
- Built, designed and developed a complex online shop for an efficient customer experience; enabled multiple product attribute selection for the customer's events and training courses;
- Site realised using Drupal 7 with Commerce modules.

### **Removals and Handy Man**

*June 2007 – June 2011*

Self-employed, Southampton based

- Provided excellent customer service for a growing customer base; managed time and costs effectively to maximise profit; transported goods in UK and Europe; carried out home repairs.

### **Building & Maintenance Assistant**

*June 2004 - Sept 2005*

InterServe Facilities Management, Cornwall

- Liaised with central office and clients to efficiently complete essential property repairs; training received in repair and maintenance: electrical faults, roofing, carpentry, plumbing; excellent time management to maintain a prompt customer appointments schedule.

### **Swimming-pool Engineer**

*Jan 2002 - Aug 2003*

Anchor Pools Cornwall

- Responsible for maintenance and repair of existing pools; construction of new pools; systems analysis to resolve faults; as a team we ensured ensured effective time management.

### **Customer Advisor**

*Oct 1998 – Nov 2001*

Alliance & Leicester, Cornwall / Northern Rock, London

- Comprehensively advised customers; promoted to Head Cashier; was product team leader on many lines; oversaw cash flow and safe management; conducted staff computer training; repaired equipment problems as required.