Chris Nicolson

Curriculum Vitae

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D.O.B. 25/07/1982
English: Native,
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As an Embedded Software Engineer within an international seismic survey company, I have developed embedded software for large-scale distributed measurement systems. Collaborating with other software and domain specialist engineers, I have a proven record of delivering practical and reliable systems.

Skills

Languages	C; AVR32, M16C assembler; Python
Tools	GCC Toolchain & Debugger, AVR32 Studio (Eclipse), CuTest (Test driven development), Version Control (Bazaar/Git), Issue/Bug Tracking, Collaborative Editing, LaTeX
Platforms	Linux, FreeRTOS, Nucleus RTOS, Windows

Experience

2011–Present — **Embedded Software Engineer**, *Sercel England Ltd*, Larbert, UK.
Specifically responsible for the WiFi & Ethernet interfaces and network stack on the remote sensor of a seismic survey system. Requires in-depth knowledge of network and system drivers and the entire TCP/IP stack. Working on an established product, I have developed strong skills in bug fixing and feature development of an existing code base.

2008–2011 — **Electronic Engineer**, *OptoSci Ltd*, Glasgow, UK.
Designed and developed a novel laser-spectrometry gas sensing for safety system on a micro-controller platform that replaced a similar, but inflexible and obsolete, previous product. Also developed hardware and software interfaces for 3rd-party monitoring and alarm systems and provided documentation for both new and legacy systems towards ISO9000 compliance.

2005-2008 — **Research Student**, *Dept. of EEE*, University of Strathclyde, Glasgow, UK.
Developed a novel Wi-fi monitoring system using off-the-shelf Linux based wireless routers as a distributed sensor network. Used open-interfaces and GCC tool-chain to develop a dynamically reconfigurable data capture and filtering system.

Summer 2004 — **Summer Student**, *TSD Platform Team, Agilent Technologies*, South Queensferry, UK.
Undertook a project to research and prototype alternatives to Network File System with emphasis on finding a more secure solution. Skills required include research, good communication and initiative.

Education

2000–2005   **MEng with Merit in Computing and Electronic Systems with Business.**, *University of Strathclyde*, Glasgow, UK.
Classes include: Computer Architecture and Design, Operating Systems, Computer Security, Network Performance and Design, Advanced Microprocessor Applications, Distributed Information Management, Systems Analysis and Design, Software Architecture, Low Level Programming, Information Transmission and Security, Control Engineering, Statistics, Algebra & Calculus.

1994–2000   **Hamilton Grammar School**, Hamilton, UK.
CSYS: Mathematics I [B], Mathematics II [A], Computing [C] *Higher:* English [B], Physics [A], Chemistry [B], Music [A], Business Management [A]

Achievements

- President of geekSoc, a university society which aims to promote personal and peer learning throughout computing and other technical fields using extra curricular projects and activities.
- Committee member of the IEEE Strathclyde Students branch
- Duke of Edinburgh Silver Award
- Boys Brigade Queens Badge - awarded for achievements in Company knowledge, Personal Development, Leadership and Service to the Community

Interests

As well as taking an extra curricular interest in all ranges of technology which I keep up to date through online resources and trade journals, I also have a keen interest in playing sports, my favourite pursuits being capoeira & rock climbing. I also enjoy reading fiction by authors such as Neal Stephenson and Terry Pratchett. I have an interest in music, both listening to a variety of performers and playing the clarinet and whistles. When on holiday, I like to visit new cities, not necessarily the obvious tourist highlights, and try and see the city as its locals do, learning about the food and drink and then trying to recreate them as best I can in my kitchen when I get home.

References

Available on request