Frank O'Gorman

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PROFILE

Highly experienced Software Developer with extensive knowledge and skills gained in a variety of industrial and commercial sectors. Quick learner, who enjoys finding innovative solutions to challenging problems.

Skills summary

Languages:	Java (6 years), C++ (5 years), C (25 years), HTML, PHP, Shell, Perl.
Environments:	Linux/Unix (27 yrs), Windows/DOS (6 yrs).
Protocols/formats:	TCP/IP, Modbus, XML, HTTP, CGI, UDP/IP, SNMP.
Packages/applications:	Swing, AWT, JFC, JNI, STL, Boost, wxWidgets, IPC, SVN (Subversion), CVS, GNU, make, Berkeley DB, yacc/bison, lex/flex, Apache.
Techniques:	OOD, GUI, multi-threading, multi-tasking, socket communications, serial communications (RS232/485), embedded systems, parsing, combinatorial search, algorithms, real time, device drivers, porting, image processing, communication protocols, shared memory.

EXPERIENCE

Software developer Wingpath Limited 1981-present

Wingpath is a small business supplying custom software development, consultancy and software products. Most development is done in Java or C/C++ under Linux/Unix.

In some of the projects listed below the work was done via an agency on a 'contract' basis, and in some the work was done directly for the client. Dates are approximate since many of the projects were interleaved.

Achievements:

- Developed many projects through complete life-cycle (requirements capture, analysis, design, documentation, implementation, testing, delivery, maintenance, enhancement).
- Established and managed software development business.
- Negotiated deals with clients for software development.
- Worked both independently and in close collaboration with clients' development teams.

Main recent projects:

- Developed embedded software for controlling and monitoring an oil gas-lift system, and its associated graphical front-end (GUI). The embedded software is multi-threaded and runs under Linux. The GUI frontend, which is also multi-threaded, runs under Windows and communicates with the embedded system using the Modbus protocol over a serial (RS485) connection.
  [2010 Client: Camcon Technology. Skills: C++, STL, Boost, wxWidgets, Linux, SVN]

- Developed cross-platform applications for the Modbus communications protocol, with graphical front-end (GUI) and multi-threaded backend communicating using Modbus over serial and socket (TCP/IP and UDP/IP) connections. Implemented in Java, with configuration data saved and restored in XML format. DocBook/HTML based help system.

[2001-2010 Client: Wingpath (products). Skills: Java, Swing, XML, HTML, SNMP, C, Linux, SVN]

- Enhanced a usage reporting system for a high-traffic website that provides online journals, books, and reference works. The system analyses web-server log files, generates customer usage statistics, and presents the statistics as web pages.
  [2004-2008 Client: Wiley. Skills: C++, Java, Unix (Solaris, Linux), Perl, Shell, HTML, Apache, CVS]

- Extended web site to handle sale of software products:
  - Developed registration key system for enabling software product fully or for time-limited evaluation.
  - Interfaced to WorldPay and PayPal to handle payments.
  - Implemented demonstration of software products using applets.

  [2003-2010 Client: Wingpath (own web site). Skills: PHP, HTML/XHTML, C/C++, Apache, Java, Linux, SVN]

- Implemented user-authentication component in a SiteMinder system providing security and single-sign-on capabiities for a collection of web-sites and applications.
  [2004 Client: Enline/BT-Syntegra. Skills: C/C++, Unix (Solaris), multi-threading]

- Enhanced and improved an embedded real-time multi-tasking data acquisition, measurement and control system for the oil and gas supply industry:
  - Modularised and generalized the system.
  - Added communications with devices (flow computers, PLCs, chromats, etc.) using Modbus protocol.
  - Used TCP/IP (sockets) instead of IPC shared memory for communications between processes.
  - Developed control logic for devices such as provers and samplers.
  - Developed modular system for routing print jobs to multiple printers.
  - Enhanced graphical front-end (GUI).
  - Enhanced source control system.

  [1997-2000 Client: Solartron. Skills: C, Linux, Unix, TCL/TK]

Other projects include:

- Real-time financial data feed system (ticker plant).
- Document image processing system.
- Multi-threaded real-time operating system (RTOS) for embedded systems.
- Embedded software for SCSI I/O processor.
- Optimal layout of printing plates.
- Hotel reservation system.
- Font-independent OCR system.
- Optimal piecewise-linear approximations for use in non-linear amplifiers.
- Compiler and run-time system for POP2 programming language.

Research fellow University of Sussex 1970-1980

Research in the area of Artificial Intelligence, particularly computer vision and image processing.

QUALIFICATIONS

M.Sc. Computer Science, Birmingham University, 1970

B.Sc. Electronic and electrical engineering, Birmingham University, 1969