

Andrew O'Malley

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Highlights

- Experienced Electrical Engineer
- Strong knowledge of VHDL, analog circuits, and microprocessors
- Highly versed in C, HTML, Windows, Linux/Unix; some knowledge of Java
- Experience in Component Engineering and reliability testing
- Demonstrated communication and leadership skills

Education

Ryerson Polytechnic University

Bachelor of Electrical Engineering with Computer Option — September 1996 to April 2001

Areas of study include Computer Programming and Data Structures in C, Compilers and Translators, Microelectronics, Digital Systems and Design, Microprocessors and Instrumentation, Computer Architecture, Real-Time Operating Systems, Controls, and Digital and Mobile Communications.

Previous Experience

Nortel Networks

Component Engineer — May 1999 to August 2000

Valued member of the OEM Power Solutions Commodity Management Team. Evaluated and approved DC-DC converters for use in Nortel designs. Liased with Nortel design community and external supply chain; used interpersonal skills to help designers meet on-board power requirements, and resolve technology and supply issues.

Ryerson Polytechnic University

Research Assistant — May to September 1998

Wrote C code to generate sinusoidal waveforms and send output to Digital-to-Analog output card for the purpose of vibrating a test bed for sorting and placing parts (nuts, washers, etc.).

General Motors of Canada

Co-op Student – January to June 1995

Worked independently and with initiative under the general supervision of an Electrical Engineer. Gained experience with Allen Bradley Programmable Logic Controllers, ladder logic, and GA BASIC. Debugged and rewrote source code for improved efficiency. Assembled jig drawings in AutoCAD for manufacture by shop personnel.

Skills

Hardware

- Created and simulated various digital devices in VHDL
- Constructed and debugged analog interface circuits for microprocessor-based instrumentation projects
- Designed autonomous robot with discreet logic for robotics competition
- Prototyped and debugged several analog circuits, including a Switch-Mode Power Supply and Voltage Controlled Oscillator
- Simulated circuits in PSpice

Software

- Implemented Graphical User Interface on Palm OS in C, using GNU tools
- Versed in software languages such as C, Pascal, and BASIC; learned user of MS Access, MS Office, Adobe Framemaker, AutoCAD; familiar with Java and Visual Basic
- Programmed numerous applications on Motorola's 68HC11 microprocessor in C and assembly
- Implemented various Control System, Communication System, and Artificial Intelligence simulations in Matlab/Simulink, reinforcing academic lab supplements
- Designed web-based team communications in HTML and LiveLink for improved document and project sharing

Qualification Activities

- Conducted accelerated stress testing of OEM modules
- Maintained software and apparatus for automated hardware testing
- Performed and reported failure analysis on test data
- Developed MS Access databases, which increased project coordination and reduced task completion time by 50%
- Completed Procurement Specifications in Adobe Framemaker per design requirements

Interpersonal

- Elected and served two consecutive executive positions at Ryerson's IEEE Student Branch
- Served as Students' Council President at Courtice Secondary School
- Conducted interviews for department intern at Nortel, resulting in the hiring of a succeeding candidate
- Held highly visible and communicative positions such as host of academic and private seminars, and receptionist at the Ontario Ministry of Finance (Employer Health Tax branch)
- Acted in a leadership role in both professional and academic workshops

Organization and Planning

- Organized Supplier/Designer Technology Road Map Forum at Nortel, February 2000, helping align industry products with customer requirements
- Coordinated on-site supplier visits
- Organized corporate team for 2000 Multiple Sclerosis Bike Tour, raising \$2500
- Arranged and promoted social mixers, mini-golf tournaments, and various other extracurricular activities

References

- Jason Wright, Nortel Networks, (613) 765-1136
- Peter Hiscocks, Ryerson Polytechnic University, (416) 465-3007
- Oliver Lindquist, SynQor, olindqui@synqor.com