

Neil M. Seward

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SOFTWARE ENGINEER 4TH YEAR

Web Development | Java Programming | Web Services

Object-oriented programmer with experience in software development and design. Utilizes emerging technologies to provide thorough development for systems. Excellent verbal skills and writing detailed technical documents. *Technical proficiencies include...*

<i>Environments</i>	Windows, Linux
<i>Programming</i>	C/C++/C#, Java, JavaScript, XML, HTML, SQL, R, Python, PHP.
<i>Development</i>	Object-oriented Design, Algorithm Design, Data Analysis

PROFESSIONAL EXPERIENCE

APPLICATION SUPPORT ANALYST, May 2015 to August 2015

360Incentives – Whitby, Ontario

Provide coordination and support for all issues related to client and customer support use of the company's core application. Created investigative queries. Analyzed core code to pinpoint location of error in application. *Selected duties include...*

- ☐ Development Cases: Tickets created for development response.
 - Thorough analysis of bugs and testing of solution
 - Created summary tickets of bug analysis and solutions
 - Organized and lead meetings to organize the development solutions to all bugs identified
- ☐ Client Report Requests: Excel reports requested by internal and external staff.
 - Retrieved requirements to include in query
 - Development of SQL queries to retrieve report information

DEVELOPER, May 2014 to August 2014

CIBC – Toronto, Ontario

Provide coordination and support for all changes related to two major banking programs. Develop shell scripts for log retrieval. Fulfill server upgrades and changes using WebLogic. Create technical documents for software and proposals. *Selected projects and duties include...*

- ☐ Autosys Log Retrieval: Individual project to retrieve logs of application.
 - Created proposal and lead meetings to organize the project's funding and development
 - Developed shell scripts for testing
- ☐ Penetration Test Fix: Fixed security flaws identified from a 3rd party.
 - Developed a new login page to erase login holes in application
 - Worked with CIBC's LDAP team to create a better lockout mechanism for application
 - Developed use cases for further testing

CO-OP STUDENT, June 2013 to August 2013

Intergraph – Mississauga, Ontario

Implement geospatial solutions and develop customer templates. Develop custom installation packages for emerging software. Write SQL scripts for table creation and formatting. Create technical documents for software. Collaborate with manager and solutions developer on projects using various technologies. *Selected projects include...*

- ☐ Mobile Link - Union Gas: Implemented Mobile Link software to a pre-sales virtual machine.
 - Created custom workflow template for pipe, valve, and fitting leak inspection
 - Integrated SQL Server database Mobile Link solution with Oracle database GTech solution for finished inspection uploads
 - Designed and hosted inner-office presentation of pre-sales virtual machine to team

- ☐ Mobile Link – Installation Package: Used WIX technologies to develop MSI and BAT file installation package and administrative user documents for Mobile Link.
 - Package included XML file configuration
 - Created batch file for easy upgrades and silent installs.
 - Designed installation to configure Oracle database using login information

- ☐ Mobile Link – Open Source Replacement: Replaced open-source code within finished product for corporate approval process.
 - Used .NET Framework to provide replacement for 3rd party GPS emulation in software.
 - Used Microsoft Team Foundation Services for project management and evaluation
 - Designed UI for GPS display

PROGRAMMING DIRECTOR, April 2013 to February 2014

OEC 2014

The students at the University of Ontario, Institute of Technology (UOIT) have chosen to host the Ontario Engineering Competition for the 2014 year. As Programming Director, it was my task to organize the first-ever programming competition for OEC.

Duties include:

- Creating competition documents outlining contest procedures and guidelines
- Contacting sponsors
- Organizing judging and contest volunteers
- Posting a valid software engineering question for the competing teams

ELECTRICAL DEPARTMENT HEAD, April 2013 to September 2014

UOIT Motorsports, FSAE – Oshawa, Ontario

I worked with the Motorsports Electrical team on components for our Formula One-style racing car. I provided cost reports for sponsors and faculty. During the year, I work with team to wire ECU and other electrical components. *Selected projects include...*

- ☞ Custom Dash: Design and implement LCD dash display to support multiple technical readings from car.
 - Programming Arduino boards to receive multiple inputs and display information on custom LCD display
 - Design electrical inputs and research what outputs are created from them
 - Designed and hosted inner-office presentation of pre-sales virtual machine to team
- ☞ Wireless Data Acquisition System: Design multiple digital inputs and outputs using Xbee wireless protocols.
 - Design includes CAN interface to communicate via CAN-Bus to ECU.
 - Utilizes two-way telemetry
 - Plan to create off-track display system for incoming data

EDUCATION & CREDENTIALS

Bachelor of Science in Engineering and Applied Science, Graduating: 2016

University of Ontario, Institute of
Technology, Oshawa, Ontario

Professional Affiliations

Formula One Society of Automotive Engineers (FSAE)

Ontario Engineering Competition (OEC)

UOIT Engineering Society

Academic Awards

2nd Place – Ontario Engineering Competition (Programming)

Euclid Award – Gr. 12 Waterloo Math Competition

LinkedIn Profile: <http://www.linkedin.com/pub/neil-seward/70/286/b66>

GitHub Profile: <https://github.com/sealneaward>