Chris (Jong Yong) Yoon

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Highlights of Skills

Programming Languages	IDE	Frameworks and Libraries
• Java • C, C++ • HTML, CSS • JavaScript • PHP • SQL	• Microsoft Visual Studio 2010 • Eclipse IDE for Java Developers • MySQL	• Selenium • TestNG • Apache Maven • Dojo Toolkit • .Net Micro Framework

Technical Work Experiences

Sierra Wireless Inc – *Software Test Developer* 2012 May – 2012 Dec

- Coded test automation in Java using Selenium and TestNG frameworks in Maven environment for manual-testing scenarios of web applications to decrease the manual labour.
- Designed and implemented Java libraries for real-time test status logging system to allow smarter and efficient debugging.
- Maintained and updated the codes for old test automation tool to be applicable to newer mobile hotspot products.
- Deployed the existing automation tools, written in AutoIt, to improve test reliability and efficiency of the test suite.
- Troubleshoot software and hardware problems and reported issues while executing manual testing for wireless modules, including USB Modems, Mobile Hotspots and Embedded wireless modules.

NTT Corp. Photonics Laboratory – *Lightwave circuit researcher* 2011 May – 2011 Aug

- Developed data visualization tools performing mathematical operations such as plotting graphs, tables and data fitting, in C++ for rapid data processing.
- Used FLTK GUI toolkit to create user interface, providing widgets and visual aids to simplify the work-flow of the data visualization tools.
- Deployed the above tools to perform data analysis and reduced the manual effort involved with data analysis.
- Executed measurements of Planar Lightwave Circuit chips using lab equipment such as Optical Spectrum Analyzer, ASE light source, optical switch, etc.

MDA Corporation – *System Test engineer* 2010 Jan – 2010 Apr

- Designed and performed detailed generic workflow regression test procedure for product functionality tests.
- Troubleshoot software bugs to find the exact source of the issues and collaborated with the developers using JIRA Work management system on a daily basis.

- Organized a set of test data in SQL database used by the software developers, later used to sell-off functionality to the customer.

Technical Projects

Address Book Web Application
2012 Nov - Present

- Designed a web application in PHP and SQL where users can add/view/delete contact information.
- Implemented MVC architecture and Observer design pattern in PHP to enforce organized and re-usable code.
- Used AJAX to simulate dynamic and user-interactive application using JavaScript with Dojo toolkit.
- Improved the design of the application using Bootstrap toolkit to provide more organized look and feel.

High Altitude GPS Glider
2012 Jan – 2012 Apr

- Built a self-guiding autonomous glider for BLAST high altitude telescope project with two other team members.
- Designed and improved the existing glider control algorithm coded in C# running .Net Micro Framework for an autonomous flight using only GPS data.
- Debugged and troubleshoot existing hardware/software bugs, providing and implementing fixes to improve the performance and the correctness of the control logic.
- Designed and developed software noise filter to reduce the noise signal originating from the glider engine, which significantly increased the correctness of the servo PID control.

2010 Engineering Physics Robotics Competition: RoboRacers
2010 May – 2010 Aug

- Built a tape-following autonomous robot and achieved 2nd place in the competition with three other team members.
- Improved the design of an existing software PID control for the steering system and analog signal input for accurate path sensing.
- Designed and built the mechanical components, such as chassis and steering mechanism using Solid Works.
- Built several prototypes and final version of a race robot using tools such as waterjet cutter, drill press, sand blaster, metal bender, spot welder, etc.

Education

University of British Columbia
2008 Sept – Present

Bachelor of Applied Science — Expected date of graduation: 2014 April

Major in Engineering Physics, Electrical option — Cumulative GPA **85.5%**

Special Awards & Academic Achievements

UBC Dean's Honour List **2009 May- Present**

$500 Donald J. Evans Scholarship in Engineering **2011 December**

$1500 Trek Excellence Scholarship for Continuing Students **2011 September**