Richard Dang

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GitHub: //Richard-Dang   Toronto, ON, Canada

Skills Summary

- Proficient in Java, C++, HTML and CSS
- Familiar with C, Python, JavaScript, JQuery, Turing and SQL
- Experience using Android Studio, Git, SVN, JIRA, Crucible, TestLink, Arduino, VHDL, and SketchUp
- Highly adaptable and enthusiastic learner continually striving to improve personally and professionally
- Strong analytical and problem solving skills developed through designing and debugging personal projects
- Excels in independent and cooperative work environments with experience in multi-site workplaces

Work Experience

Software Tester and Tools Developer, *GEO Semiconductor Inc.*   **Jan. 2016 – Apr. 2016**

- Validated overall firmware integrity of over 20 camera sensors/platforms involving I2C, UART and SPI communication protocols
- Designed regression test plans used to verify proper functionality of Image Signal Processing and Geometric Processing algorithms such as Auto Exposure, Auto White Balance, Image Warping and On Screen Display
- Developed and maintained host tools in C and Python used for internal testing and development
- Reduced testing time by over 50% through automation of testing procedures using host communication APIs
- Analyzed HDMI and NTSC video sync timing using oscilloscope to meet customer boot-up time requirements

Technology Website Editor, *IGXPro.com*   **Dec. 2011 – Aug. 2012**

- Conducted in-depth research on latest electronics in order to author reviews and publish technology articles
- Enhanced written communication skills and expanded on existing knowledge of electronic devices

Projects

RichardDang.ca, *Personal Website*   **Feb. 2016 – Mar. 2016**

- Acquired fundamental web design skills through learning HTML, CSS, JS and JQuery; provides brief autobiography and showcases relevant projects and skills

Intelligent Car, *Autonomous Maze Solving Robot*   **Feb. 2015 – Jun. 2015**

- Designed and created a self-navigating vehicle in team of three with the ability to traverse a maze using Arduino and electrical components such as H-Bridge, light dependent resistors and motors/gears

Tetristry, *Chemistry Educational Software*   **Jan. 2014 – Jun. 2014**

- Programmed a Tetris-like chemistry education game in Java through implementation of OOP concepts
- Learned importance of system structures in software design while working with UML class/activity diagrams

Extracurriculars & Interests

Driftwood Community Center   **Jun. 2013 – Sept. 2015**

- Mentored younger students in math and science; planned annual picnic trips and events

Toronto Public Library   **Jul. 2013 – Aug. 2014**

- Oversaw arts, crafts and reading program for young children; organized book returns as librarian assistant

Android Software – Self-taught knowledge about rooting and modifying software on smartphones and tablets

Road Bicycling – Continuously improving average speed and total distance, exceeding 100km rides