Richard Dang

1B Computer Engineering | r22dang@uwaterloo.ca | (647) 717-0339 | Toronto, ON, Canada
LinkedIn: linkedin.com/in/dangrichard | **Website:** richarddang.ca | **GitHub:** github.com/Richard-Dang

Summary of Qualifications

- Proficient: Java, C++, HTML, and CSS; Familiarized: Batch, C, JavaScript, JQuery, Python and Turing
- Experience with Arduino, Sublime Text, JIRA, Crucible, TestLink, Git, SVN and Google Sketchup
- Strong analytical and problem solving skills developed through working with hardware and software
- Solid background knowledge of computers and mobile device components
- Effective oral and written communication, excellent organization and time management skills

Projects

RichardDang.ca, Personal Website   **(Feb. 2016- Mar. 2016)**
- Developed without use of external frameworks to gain experience in HTML, CSS, JS and JQuery while gaining fundamental web design; provides brief autobiography and showcases relevant projects and skills

Intelligent Car, High School Computer Engineering Project   **(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, High School Computer Science Project   **(Jan. 2014- Jun. 2014)**
- Planned and co-programmed a chemistry education game in Java through implementation of OOP concepts
- Gained fundamental understanding of system structures in software design while working with class/activity diagrams in Unified Modeling Language

Work Experience

Firmware Test Engineer, GEO Semiconductor Inc.   **(Jan. 2016 – Apr. 2016)**
- Maintained overall firmware integrity of over 20 camera sensors/platforms with engineering boards using I2C, UART and SPI communication protocols
- Designed regression test plans used verify proper functionality of Image Signal Processing and Geometric Processing algorithms such as Auto Exposure, High Dynamic Range, Image Warping and On Screen Display
- Developed and maintained host tools for testing and development in C and Python
- Reduced testing time by over 50% through automation of testing procedures using board communication APIs
- Analyzed HDMI & 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 specifications of the latest electronic devices in order to review and publish technology articles - Profile: igxpro.com/author/dangitsrichard

Activities & Interests

Android Software
- Passionate to learn about new consumer technology and self-taught knowledge about rooting and modifying software on Android smartphones and tablets

Road Bicycling & Weightlifting
- Constantly improving average speed and total distance travelled; exceeding 100km trips through consistent practice with other cyclists

Volunteer Experience

Driftwood Community Center   (2013 – 2015)
- Mentored younger students in Math and Science; planned annual picnic trips and events

Certifications

FIT Software Design and Development & Business and Information Analysis   (2015)
Cisco IT Essentials Certified   (2015)
WHMIS & Occupational Illness Certified   (2014)

Education

U. of Waterloo, Waterloo, ON   (2015-Present)
- Candidate for Bachelor of Applied Science Degree in Computer Engineering (Co-op)

W. L. Mackenzie, Toronto, ON   (2011 – 2015)
- Completed high school with a 94% average and received an Ontario Secondary School Diploma