

# Richard Dang

IB Computer Engineering | r22dang@uwaterloo.ca | (647) 717-0339 | Toronto, ON, Canada  
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## Summary of Qualifications

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- *Proficient:* Java, C++, HTML and CSS; *familiarized:* C, Python, Javascript, JQuery, Turing and SQL
- Experience with Git, SVN, JIRA, Crucible, Sublime Text, TestLink, Arduino, SketchUp and batch files
- 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

## Work Experience

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### Software Tester and Tools Developer, GEO Semiconductor Inc. (Jan. 2016 – Apr. 2016)

- Maintained firmware integrity of over 20 camera sensors/platforms using I2C, UART and SPI communication
- Designed regression test plans used to verify proper functionality of image and geometric processing algorithms
- Developed and maintained host tools in C and Python used for 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 electronic devices in order to review and publish technology articles

## Projects

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### RichardDang.ca, Personal Website (Feb. 2016 – Mar. 2016)

- Acquired fundamental web design skills through learning HTML, CSS, JS and JQuery without use of external frameworks; 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

### Tetris, High School Computer Science Project (Jan. 2014 – Jun. 2014)

- Planned and programmed a 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

## Activities & Interests

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### Android Software

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

### Weightlifting & Road Bicycling

- Committed to maintaining health through consistent gym attendance; constantly improving average biking speed and total distance travelled, exceeding 100km trips through practice with other cyclists

## Certifications

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

## Education

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### University of Waterloo, Waterloo ON (2015 – Present)

- Candidate for Bachelor of Applied Science Degree in Computer Engineering (Co-op)