

TONY LIANG

SOFTWARE ENGINEERING



WEBSITE:

t-tonyliang.github.io



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GITHUB:

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SKILLS

- Proficient: **Java, C, HTML5, CSS** and **C++**
- Familiar: **JavaScript, XML**
- Tools: **Bootstrap, Vim, Android Studio, Energia, Windows** and **Linux environments**
- Experience developing web, Android and Arduino apps

PROJECTS

Personal Website – Web Development (<https://github.com/T-TonyLiang/T-TonyLiang.github.io>) Jan. 2015 – Present

- A mobile-friendly website created with **HTML, CSS** and the **Bootstrap** framework
- Designed website layout, added and customized visual elements

Circles – Android Application (<https://github.com/jerryliu55/Circles>) Nov. 2015 – Present

- Developed an Android game for Hack Western II using knowledge of **Java** and **XML**
- Designed code for future scalability through **OOP** principles
- Implemented collision system and motion of objects for realistic interactions
- Created graphics using Canvas and Paint libraries to properly display all game elements

Land Battle Chess – Java, OOP (<https://github.com/T-TonyLiang/Land-Battle-Chess>) Oct. 2014 – Apr. 2015

- Developed chess board game using **Java, OOP**, linked lists and stacks
- Utilized effective unit testing to ensure product adheres to original game rules
- Experience with exception handling for run time errors and display using Swing class
- Documented development process, techniques, evaluation of product and code (using Javadoc)

Orbit Game – Arduino (<https://github.com/T-TonyLiang/orbit-Game>) Oct. 2015 – Dec. 2015

- Built an obstacle dodging game on a microcontroller board using **C** and the **Energia** IDE
- Uses Arduino and board specific API to program hardware components (switches, accelerometer)
- Implemented obstacles with increasing difficulty, graphics, and score system

WORK EXPERIENCE

Summer Camp Coordinator, Markham Free Methodist Church May 2015 – Aug. 2015

Kumon Assistant Tutor, Bayview-York Mills Kumon, Toronto Jun. 2014 – Jan. 2015

EDUCATION

Candidate for Bachelors of Software Engineering, Class of 2020 Sep. 2015 – Present

University of Waterloo, Waterloo, Ontario

International Baccalaureate Programme (IB), High School Diploma Sep. 2009 - May 2015

Victoria Park Collegiate Institute, North York, Ontario