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Emmett Tan

Computer Engineering

TECHNICAL SKILLS

Programming
- C
- C++
- Java
- VHDL

Software/OS
- Eclipse
- Xcode
- Quartus II
- Subversion
- Git

Hardware and Tools Experience
- Altera FPGAs
- Microcontrollers
- Multimeters
- Oscilloscopes
- Soldering Irons

ACADEMIC & CO-OP STATUS

Academic Program

- **University of British Columbia**
  Bachelor of Applied Science - Computer Engineering Software Option
- 5 of 8 academic terms completed
- Anticipated date of graduation: May, 2017

TECHNICAL EXPERIENCE AND PROJECTS

Vanrx Pharmasystems Inc. **January 2015 - August 2015**

Systems Engineering Intern

- Built a robot automation control interface to allow easy rapid prototyping of new robot design ideas
- Assisted R&D with setting up and testing concepts for machines in development
- Setup vision system and calibrated cameras to detect missing vials

Idea Rebel **July 2014 – August 2014**

Mobile Developer Intern

- Used Xcode to debug and test various parts of a social media app such as profile settings page, landing page, sign up, login, and user edit profile page in order to ensure a smooth user experience
- Ensured that user's information is properly updated by re-fetching data through a Rest-API when changes are made
- Implemented full password reset functionality, enabling users to send a password reset URL to their email which becomes void when the user successfully changes their password or if 24 hours have passed

Bomberman Videogame for the Nios II Embedded Processor **September 2014**

- Implemented bitmap drawer code, which reads and draws a 24 bit color 20x20 pixel bitmap from the SD card
- Wrote erase and redraw functions in order to allow user to move character across map
- Built code to receive and draw an 11x11 game map from randomly generated array