Nicholas Ng Computer Engineering Student

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TECHNICAL SKILLS

Computer
- Microsoft Office
- Java/C/C++/Python/HTML
- Verilog/ARM Assembly
- Git/JIRA/Bitbucket/Command Line

Equipment
- Oscilloscope/Multimeter
- Soldering Iron
- Breadboard

Certifications
- BC Class 5 Driver's License
- WorldHost

EDUCATION

University of British Columbia   **Expected Graduation May, 2023**
Bachelor of Applied Science - Computer Engineering
Co-op: Available for 4 months beginning September 2021

WORK EXPERIENCE

Verathon Medical, Burnaby, BC   **January, 2021 – Present**
Test Engineering Co-op
- Performed verification and validation of software plans in collaboration with software team
- Reported software defects and verified JIRA issues to improve the quality of the product
- Identified testing problems to Senior Test Engineers and worked with the team to solve the issues
- Executed mechanical testing on products using mechanical jigs and test equipment to identify equipment points of failure

Vancouver Minor Hockey Association, Vancouver, BC   **October, 2013 – Present**
Ice Hockey Official
- Mentored younger officials and hockey players to improve knowledge of hockey rules
- Established strong leadership and decision-making skills while refereeing games
- Communicated with officials, coaches and players to promote healthy relationships

TECHNICAL PROJECTS

Simple RISC Machine, UBC   **September, 2019 – November, 2019**
- Programmed and designed a simple RISC machine in Verilog from scratch with a partner
- Conducted simulations with ModelSim and synthesized designs onto a FPGA utilizing Quartus
- Explained and demonstrated functionality of machine using state/logic diagrams and schematics
- Strengthened abilities in debugging, identifying possible errors in code and resolving bugs

Line Tracking Robot, UBC   **February, 2020 – March, 2020**
- Assembled and developed an autonomous line tracking robot in Python with group collaboration
- Designed and improved the proportional-integral-derivative (PID) controller through testing to debug
- Compiled and interpreted sections of code to create a coherent and fully functional end product

VOLUNTEER EXPERIENCE

David Thompson Secondary School, Vancouver, BC   **September, 2015 – June, 2018**
Community Schools Team Leader
- Led afterschool activities for 15 to 20 students to develop their skills in sports, reading and arts
- Provided supervision, instruction and guidance to engage children in activities to ensure a positive learning environment

PROFESSIONAL AFFILIATIONS

Engineers & Geoscientist British Columbia (Student Member)   2018 – Present

INTERESTS & ACTIVITIES

Ice hockey, skiing, running, travelling, fantasy sports, video games