Nicholas Tang

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SKILLS

- **Programming:** Python, C/C++, TCP/IP, PowerShell, Assembly, SystemVerilog
- **Hardware:** Microcontroller, Microcomputer, Oscilloscope, Breadboard, Multimeter
- **General:** Microsoft Office 365, Windows 10, macOS, Linux, Git
- **Certifications:** WHIMIS, Driver's License, Standard First Aid w/ CPR-C

WORK EXPERIENCE

Intel Corporation   **Sep 2021 – Present**
Undergrad Intern Technical - ECC RTL Software, FPGA Design   *Vancouver, BC*
- Upgrade multiple algorithms in C to perform gaussian elimination and inverse on matrixes over finite fields, testing error correction code efficiency on MATLAB
- Support department in Error Correction Code development and testing in SystemVerilog

Icron, Maxim Integrated   **May 2021 – Aug 2021**
Applications Engineering Intern   *Burnaby, BC*
- Collaborated in a 6-member group to perform system and hardware level verification
- Developed excellent communication skills while engaging in hardware debugging with the software team
- Tested prototype modifications to existing USB extension peripherals

UBC Department of Psychology   **May 2019 – Apr 2021**
Junior IT Support Analyst   *Vancouver, BC*
- Assisted members of the department with respect to computers and hardware, AV equipment, and service support for various software, including MATLAB, Qualtrics, and SPSS
    - Resolved over 600 incidents from staff, professors, and graduate students
- Improved front office workflow by implementing Excel spreadsheets into delivery reports

ENGINEERING STUDENT TEAM

UBC Unmanned Aircraft Systems   **Jul 2020 – Mar 2021**
Aircraft Co-Lead   *Vancouver, BC*
- Spearheaded the creation of a drone capable of flying over 8 miles from scratch
    - Selected PDB and ESCs and well as soldered 12-gauge wires to XT90 connectors
    - Constructed mechanical designs of DragonLink, PDB and boom mounts
- Organized weekly sessions, contacted sponsors, and managed team finances as part of the admin team

Radio Antenna Designer   **Sep 2018 – Jul 2019**
- Designed an antenna and GPS tracker moving in both yaw and pitch, as well as the main aircraft itself in AUVSI Student Unmanned Aerial Systems Competition (USAS) and Unmanned Systems Canada (USC)
- Drafted designs with SolidWorks and built the physical model with machined 6061 aluminum

EDUCATION

University of British Columbia   **Expected Apr, 2023**
Bachelor of Applied Science, Electrical Engineering (Biomedical Option, Co-op)   *Vancouver, BC*
- Dean's Honour List; CGPA: 82.7%
- Minor in Astronomy