Nicholas Tang

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SKILLS

- **Programming:** Python, C/C++, Linux, SSH, Assembly, SystemVerilog
- **Activities:** Unmanned Aircraft Systems, UBC Acapella, UBC Recreation (Lifeguard/Instructor)
- **General:** Windows 10, macOS, Linux, Git, Active Directory

WORK EXPERIENCE

UBC BioMEMS Lab **May 2021 – Aug 2021**
Research Assistant – Multiplexed Inkjet System Design *Vancouver, BC*
- Benchmarked piezoelectric nozzle, drive electronics, and camera system for a microfluidics dispensing printer
- Created Python code to drive functionality of an arbitrary function generator, a model GUI, and a csv file importing module to identify dispensing locations on a flat surface

Intel Corporation/Solidigm Technology **Sep 2021 – Apr 2021**
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

EDUCATION

University of British Columbia **Expected Apr, 2023**
Bachelor of Applied Science, Electrical Engineering (Biomedical Option, Co-op) *Vancouver, BC*
- Dean's Honour List
- Cumulative GPA: 83.2%