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| **Robert Choi**  Honours Nanotechnology Engineering | University of Waterloo  [robert.choi@uwaterloo.ca](mailto:robert.choi@uwaterloo.ca) | (778) 899-9880 | |
| SUMMARY OF QUALIFICATIONS   * Experience programming in Python, MATLAB, C++, C#, and VBA attained through courses and side projects * Experience with CAD experiment design and re-design in Solidworks * Proficient in Microsoft Office * Excellent written and verbal communication skills acquired from handling client inquiries and teaching students * Leadership experience including president of the DT Secondary MUN and section leader in multiple music ensembles   EDUCATION  University of Waterloo2018 - 2023   * BASc. in Nanotechnology   DEEP at UofT2017   * Business and Engineering Summer Program   Young Artist Collegiate Program at Vancouver Academy of Music2016 - 2018   * Earned the equivalent of first-year college credits towards a Bachelor of Music while taking a full course load in high school   RELEVANT COURSES  Quantum Mechanics, Organic Chemistry, Electromagnetism, Advanced Calculus, Materials Science, Linear Circuits  LAB SKILLS  AFM, DSC, TGA, Tensile and Impact Testing, LLE, Oscilloscope, DMM, Reflux condensation, Distillation purification  INTERESTS  Section leader UWaterloo Orchestra, Chamber Ensemble, Curling, Visual Arts, Dragon Boating | RELEVANT EXPERIENCES  **Build Engineer** Jan - April 2020  *Sandvine Inc, Waterloo, ON*   * Dealt with the crappy ci pipelines in jenkins and fixed a different crappy system made by the last coop so it actually works. python, rabbitmq (which literally has 0 help for parallel processing), flask, gitlab, jira, git, vim, I’m grasping at straws here, linux, ubuntu, sketchy 3rd party apps, and more   **Technical Support Specialist** May - Aug 2019  *University of Waterloo, ON*   * Resolved 190 technical support issues through the term, a 20% increase in efficiency from the average coop term * Added security features and improved the output structure and design of the S4B Interviews Script using C# and Visual Studio * Built a website using HTML and Confluence for quick reference, increasing overall efficiency of the support process   **Waterloo Biotron PoweredArm Designer** May - Aug 2019  *University of Waterloo, ON*   * Redesigned and compacted the palm model by 29% while maintaining maximum power in the fingers using Solidworks   **Waterloo Rocketry Payload Designer** ??? 2018 - ??? 2019  *University of Waterloo, ON*   * Designed and modelled a CubeSat as well as Waterloo Rocketry’s 2019 experiment using drawing and assembly features in Solidworks   PROJECTS  **Stop Slacking** June 2019   * Built a web app using Standard Library, UI Path, and Google APIs to automate the menial organizational tasks in a student’s life   **Arduino Coffee Stirrer** February 2019   * Designed and built a coffee stirrer with hardware such as heat sensors and an Arduino Uno controller   **Remote Controlled Skateboard** May 2018   * Created a remote controlled skateboard using 3D printed materials and spare parts, as well as a network of servo motors controlled with a Raspberry Pi   ACHIEVEMENTS  Enghack Hackathon 2019 Best Automation PrizeJune 2019  VDSF Engineers and Geoscientists of BC AwardApril 2018  Vancouver International Music CompetitionOctober 2017   * 3rd prize   Pan American Wushu ChampionshipsAugust 2016   * Won 2 Silver medals for Team Canada |

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| **VDSF Engineers and Geoscientists of BC Award**  *Vancouver District Science Fair, BC*   * Applied Peltier technology in a proposal for an increase in the efficiency of solar fields | April 2018 |

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| **Peer Tutor**  *David Thompson Secondary*   * Provided support across all subject areas by diagnosing obstacles to understanding while also offering advice on study skills | 2016 - 2017 |

OTHER INTERESTS

● Baking ● Curling ● Hiking ● Drawing ● Arranging Music

Lab Skills:

Liquid-liquid extraction, AFM, DSC, TGA, Tensile and Impact testing

Seattle International Martial Arts Competition(2015)

YACP Scholarship

Ontario society of Engineers

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| VDSF Engineers and Geoscientists of BC Award | April 2018 |

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| Kay Meek Music Competition   * 2nd Place and Scholarship Recipient | May 2017 |
| ARCT Certification in Cello Performance | May 2016 |

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| University of Waterloo President’s Scholarship | September 2018 |
| BC Achievement Scholarship | June 2018 |
| David Thompson Secondary Mathematics Scholarship | June 2018 |

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| **Office Manager**  *Metrotown Podiatry*   * Ensured efficiency running the front-end of a medical specialty office, including handling inquiries, scheduling appointments, and billings | 2014 - 2018 |
| **Music Teacher and Cello Coach**  *St. James Music Academy*   * Provided one-on-one lessons for special needs students, and was also a substitute teacher for group lessons | 2015 - 2018 |

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| **Freelance Cellist**  *Vancouver, BC*   * Curated, arranged, and performed songs for weddings and other special events based on the client’s needs | 2016 - 2018 |

* Strong work ethic and organizational skills demonstrated by maintaining a principal’s list average while competing at national level competitions with numerous medal wins