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| Henry Wang | Email: h397wang@uwaterloo.ca  Cell: 613-890-9178  GitHub: h397wang |

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| **Qualifications** | | | | | | |
| * Working knowledge of AutoCAD, MATLAB, SolidWorks, C++, Python, DipTrace, Android Application Development, Java, VHDL, Unity, C# and Microsoft Office Suite. * Clear and concise in verbal and written communication. * Strong work ethic and desire to learn as demonstrated by excellent academic standing, extracurriculars and self-initiated projects. | | | | | | |
| Work Experience | | | | | | |
| Project Manager Assistant, Brook Restoration, Ottawa, ON | | Spring 2015 – Fall 2015 | | | | |
| * Developed clear and professional communication skills through interactions with co-workers, suppliers, sub-contractors, clients and consultants. * Gained knowledge in general project management by assisting with the revision of project scheduling, cost estimations, technical drawings and other documentations. | | | | | | |
| Piano Teacher, Music for Kids, Ottawa, ON | | Winter 2013 – Fall 2014 | | | | |
| * Exercised communication skills by evaluating excerpts then providing tactful and constructive feedback. | | | | | | |
| Project Experience | | | | | | |
| Leap Motion Controller Hardware Hack (UofT Hacks) | | | | | Winter 2016 | |
| * 3D (4x4x4) game of tic tac toe created in Unity (C#) implements Leap Motion’s hand and gesture recognition to provide a 3D interactive user interface. | | | | | |
| Arduino Alarm Clock Prototype | | | | | Fall 2015 | |
| * Uses a real time clock and liquid crystal display to get and display time. * User interface allows setting of the alarm time, toggling of alarm mode and manual termination of buzzer. | | | | | | |
| Tic Tac Toe Algorithm (C++) | | | | | Fall 2015 | |
| * Console application implements abstract data types and dynamic memory allocation. * AI uses minimax algorithm to determine best available move ensuring it to win or draw. | | | | | | |
| Remote Controlled Arduino Car | | | | Spring 2015 | | |
| * Used SolidWorks to design chassis components before 3D printing and assembly. * Alternative machine state allows for line following mechanism using photosensors. | | | | | | |
| Beam Analysis Script (MATLAB) | | | | | Spring 2015 | |
| * Outputs shear force and bending moment diagrams based on input details of beam, forces and moments. | | | | | | |
| **Education** | | | | | | |
| Dean’s Honour List | | Winter 2015 | | | | |
| Candidate for Bachelor of Applied Science, Electrical Engineering  University of Waterloo, Waterloo, ON | | Spring 2020 | | | | |
| Ontario Secondary School Diploma (International Baccalaureate Diploma)  Colonel By Secondary School, Ottawa, ON | | Spring 2014 | | | | |
| Activities and Interests | | | | | | |
| Waterloo Aerial Robotics Group | | | Fall 2015 - Present | | | |
| * Exposure to soldering, PCB and schematic design (DipTrace), source control (Git) and UAV basics. | | | | | | |
| Waterloo Engineering Competition Director | Fall 2015 | | | | | |
| * Demonstrated good organization and communication skills by resolving participant inquiries and coordinating with other directors, volunteers and professors to ensure a successful event. * Created the competitor’s package describing project scope, materials, design requirements and constraints. | | | | | | |