|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Henry Wang** | | | | Email: h397wang@uwaterloo.ca  Mobile: 613-890-9178  K2G 2B7, Ottawa, ON | | | | | | | | | | | | |
|  | | | |  | | | | | | | | | | | | |
| **Skills Summary** | | | | | | | | | | | | | | | | |
| * Working programming knowledge of Java, C++, C#, Android Development, Unity and Arduino. * Experienced with AutoCAD, MATLAB, SolidWorks, DipTrace, and VHDL. * Strong work ethic and desire to learn as demonstrated by excellent academic standings and self-initiated projects. * Proficiency in technical writing procured through by various written lab reports. * Capable verbal communication and organization skills shown by event hosting experience. * Attention to detail and strong troubleshooting skills developed through peer tutoring. | | | | | | | | | | | | | | | | |
| Work Experience | | | | | | | | | | | | | | | | |
| Project Manager Assistant, Brook Restoration, Ottawa, ON | June 2015 – September 2015 | | | | | | | | | | | | | | | |
| * Contacted suppliers and sub-contractors to describing the specification of materials, tools and or services; coordinated the pick-up and delivery of said products. * Provided support to workers with onsite work in a safe and reliable manner; demonstrated good listening and quick learning skills. * Gained knowledge in general project management by assisting with the revision of project schedules, cost estimations, technical drawings and other documents. | | | | | | | | | | | | | | | | |
| Piano Teacher, Music for Kids, Ottawa, ON | | | February 2013 – August 2014 | | | | | | | | | | | | | |
| * Effectively communicated with parents and students to provide progress updates and schedule weekly appointments. * Evaluated musical excerpts and provided constructive feedback in a tactful way. | | | | | | | | | | | | | | | | |
| Staff Member, University of Waterloo Food Services | | November 2015 – December 2015 | | | | | | | | | | | | | | |
| * Synergized with other staff members to deliver customer requests in a timely manner. * Developed micro-time management skills through the multi-tasking multiple client orders. | | | | | | | | | | | | | | | | |
| Customer Service Representative, Farm Boy Nepean, Ottawa, ON | | | | | | September 2013 – August 2014 | | | | | | | | | | |
| * Resolved customer inquiries in a pleasant and professional manner. | | | | | | | | | | | | | | | | |
| Project Experience | | | | | | | | | | | | | | | | |
| Android Pedometer Application | | | | | | | | | | | February 2016 | | | | | |
| * Demonstrated leadership in guiding group members through the development of the project. * Used MATLAB to read and analyze raw sensor data. * Designed and implemented a pedometer algorithm using a finite state machine and low pass filters. | | | | | | | | | | | | | | | | |
| Leap Motion Controller Hardware Hack | | | | | | | | | | | | | | January 2016 | | |
| * Created a 4x4x4 game of Tic-tac-toe in Unity (C#) that implements Leap Motion’s hand and gesture recognition to provide a 3D interactive user experience. * Assisted group members with the research, development and debugging of in game features. | | | | | | | | | | | | | | | |
| Arduino Alarm Clock Prototype | | | | | December 2015 | | | | | | | | | | | |
| * Assembled and integrated a real time clock and liquid crystal display to display time. * User interface allows setting of the alarm time, toggling of alarm mode and manual termination of buzzer. | | | | | | | | | | | | | | | | |
| Tic-tac-toe Algorithm | | | | | | | | December 2015 | | | | | | | | |
| * Written in C++, the console application uses abstract data types and dynamic memory allocation. * Implemented the minimax algorithm to ensure the AI always wins or draws. | | | | | | | | | | | | | | | | |
| Remote Controlled Arduino Car | | | | | | | | | | | | | August 2015 | | | |
| * Used SolidWorks to design chassis components before 3D printing and assembly. * Added an alternative machine state allows for line following mechanism using photosensors. | | | | | | | | | | | | | | | | |
| Beam Analysis Script | | | | | | | | | | | | | | | May 2015 | |
| * MATLAB program outputs shear force and bending moment diagrams based on input details of beam, forces and moments | | | | | | | | | | | | | | | | |
| **Education** | | | | | | | | | | | | | | | | |
| Dean’s Honour List, Department of Civil and Environmental Engineering | | | | | | | | | May 2015 | | | | | | | |
| Candidate for Bachelor of Applied Science, Electrical Engineering  University of Waterloo, Waterloo, ON  International Baccalaureate Diploma  Colonel By Secondary School, Ottawa, ON | | | | | | | | | May 2020  May 2014 | | | | | | | |
| **Extra-Curricular Activities** | | | | | | | | | | | | | | | | |
| Waterloo Aerial Robotics Group | | | | | | | | | | September 2015 | | | | | | |
| * Exposure to soldering, PCB and schematic design, Git and UAV basics. | | | | | | | | | | | | | | | | |
| Waterloo Engineering Competition Director, Waterloo Engineering Society | | | | | | | | | | | | November 2015 | | | | |
| * Coordinated with other directors in preparation of the event; maintained regular communication channels, assembled required materials and setup of the base camp. * Was responsible for writing the competitor’s package describing project scope, materials, design requirements and constraints. * Provided briefing and addressed inquiries for the competitors regarding general rules, project scope and event schedule. * Directed the competitors and professors during the judging of presentations to keep on schedule. | | | | | | | | | | | | | | | | |
| Genius Bowl Director, Waterloo Engineering Society | | | | | | | November 2014 | | | | | | | | | |
| * Collaborated with other directors to organize termly trivia event. * Was responsible for creating questions and answers, event promotion, budgeting and hosting. | | | | | | | | | | | | | | | | |
| **Interests** | | | | | | | | | | | | | | | | |
| * Physical activities: badminton, soccer, futsal, weight room exercises. * Arts: sketching, piano, creative writing. | | | | | | | | | | | | | | | | |