Mechatronics Engineering

YAN SONG KE

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Summary of Qualifications

- Three years of self-taught programming experience, developed in **C++**, **Python**, **AngularJS**
- Experiences with **AutoCad**, **Solidworks**, **Arduino**, **RobotC** and **Git**
- Strong communication skills from exposure to public speaking, able to express ideas to people of all technical levels
- Able to quickly learn and apply new concepts, such as languages to meet project needs
- Exceptional teamwork skills demonstrated when placed in various group settings

Relevant Projects

PERSONAL WEBSITE   Dec 2016

- Created an online portfolio, www.yanske.me, using HTML/CSS and Bootstrap

TRON TABLE TENNIS TRAINER   Nov 2016 – Dec 2016

- Designed and created an automatic table tennis ball shooter for first year mechatronics concepts course project
- Build using RobotC (C based language), 3-D printed gears, laser-cut acrylic frame, and Mindstorm sensors

SYNCIN   Sep 2016

- Designed for Hack the North to streamline interactions between employers and candidates in job fairs by using iBeacons
- Designed the web app UX and the database, pair-programmed to create front-end, using AngularJS to handle events
- Created business plan and sales pitch, presented to judges and interested employers
- Led team discussion as we switched ideas mid-way and implemented previously written code for the new idea

APPC WIND TUNNEL   Dec 2015 – Feb 2016

- Designed and constructed an Arduino based wind tunnel capable of detecting aero-dynamical forces on various airfoils
- Designed wind tunnel frame and connected sensors to a MatLab interface

Relevant Experiences

SOFTWARE DEVELOPER – UW Power Arm Student Design Team – Waterloo, Ontario   Sep 2016 – Present

- Currently writing Python machine learning libraries in C++ to implement in Raspberry PI, as part of the software team

DIRECTOR OF WEB OPERATIONS – TOPS Program – Toronto, Ontario   Sep 2012 – June 2016

- Worked from position of Junior Web Developer to Director of Web Operations in four years
- Led technical aspects of program events including TOPS Registration, TOPS Information Night, and TOPS Exam
- Mentor and delegate a team of junior web developers
- Worked closely with school administration to maintain the TOPS program website

REAL ESTATE AGENT ASSISTANT – AimHome Realty Inc. Brokerage – Toronto, Ontario   July 2015 – Sep 2016

- Worked two summer terms assisting in day-to-day operations of a real estate agent
- Communicate with clients to finalize paperwork and act as a liaison to the agent
- Research property information for agent
- Update agent's website with current and archived listings

Education

HONORS MECHATRONICS ENGINEERING, CO-OP – University of Waterloo – Waterloo, Ontario   Sep 2016 – Present

- Candidate for Bachelor of Applied Science, expected graduation in 2021
- Recipient of President's Scholarship of Distinction and Engineering Entrance Scholarship