WILSON CHU

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EDUCATION: Ryerson University, Toronto, ON *June 2017*
Bachelor of Engineering, Mechanical Engineering
Specialization: Mechatronics, Minor: Mathematics

SKILLS:
Software: SolidWorks, Inventor, LabVIEW, MS Excel, Visio, Project
Programming Languages: C, Java, MATLAB, Simulink, Assembly

RELEVANT COURSES:
- Statistics/Numerical Analysis
- Probability and Stochastic Processes
- Project Management
- Reliability and Decision Analysis
- Real-Time Computer Control Systems
- Microprocessors/Mechatronics Design
- Measurements, Instruments, and Sensors
- Manufacturing System Controls (PLCs)

PROJECTS:

Autonomous Snow Shoveling Robot (Capstone Design Project) *January 2017 – April 2017*
- Managed workflow and tight deadlines using an agile model and Gantt charts
- Coordinated the overall systems design to meet all requirements and constraints
- Selected and verified motors based on engineering calculations and price constraints
- Optimized the cost of the robot by implementing many off-the-shelf components

Automated Guided Vehicle (AGV) *October 2016 – December 2016*
- Communicated with 3 classmates to design and program a robotic vehicle capable of traversing through an unknown obstacle course autonomously to pick and place objects
- Calibrated various sensors to accurately navigate the vehicle around the course
- Programmed the vehicle using C in an Arduino IDE interface
- Contributed to a detailed technical report

Child Walker *February 2015 – March 2015*
Under commission by Tetra Ryerson and an affiliated client, a mobility device accommodating children suffering from spinal muscular atrophy was designed.
- Collaborated in a team with 5 other members of different engineering disciplines
- Researched and analyzed several in-market walkers available at the time
- Developed the most optimal and cost-effective design based on researched information
- Drafted the design in SolidWorks

ACTIVITIES:

Ryerson Rams Robotics Club *October 2015 - Present*
Designed and fabricated a remote-controlled robot with a mounted claw arm with 2 other engineering students. It was intended for new club members to play with in order to familiarize themselves with the VEX hardware and software systems. It was also used to showcase the club to prospective students in the annual Ryerson Engineering Expo.