



Mankin Ho

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University of Ontario Institute of Technology **Mechatronic Engineering** (Class of '18)

SKILLSET

Hardware

- Solid Works 2010
- SoftPlan
- MATLAB R2014a (Intro)
- AutoCAD
- Google Sketch Up PRO
- Adobe Photoshop
- Siemens NX 9.0

Software

- Microsoft Office
- Turing
- Java Eclipse
- Microsoft Visual Basic
- C++
- Maple 18

Certifications

- WHIMIS
- Standard First Aid
- Canadian Aircraft Radio Operator

EXPERIENCE

Server, Victorian Tea Room, Thornhill, ON.

(Summer 2015)

- Served multiple dishes and took orders simultaneously with full course meals in a fine dining environment

Aviation Guide, Family Day at Bombardier, North York, ON.

(September 2011)

- Supervised airplanes, helicopters and aircraft displays explained basic aerospace history, aerodynamics and construction procedures to participants

Aviation, Fitness & Survival Instructor, Royal Canadian Air Cadets, Richmond Hill, ON.

(2012-2014)

- Taught 3 classes of 20 about the fundamentals of flight and aviation knowledge
- Assisted officers and taught classes about survival during field training exercises

Fundraiser, Royal Canadian Air Cadets Annually

(2009-2014)

- Ranked top 5 in selling poppies and tags for fundraisers gaining customer service skills by asking public if they would support our organization through donations

PROJECTS

Multi-player Connect 4 interactive game application



- Programmed application game using Java Eclipse
- Program allowed user to play with others while keeping score in another program file

Task Car



- Programmed and built a circuit board task car to maneuver and execute task including picking up paper clips with a self-made electromagnetic rod
- Program obtained user's input through a self-made joy pad
- Output was through the parallel port and into the task car

Architecture Design



- Designed a universal furnished house geared towards Ontario residents
- Designed and modeled a Laser Quest arena

Homemade Foundry



- Built a metal foundry geared towards melting down pop cans
- Reused pop cans for making gears, spare parts, weapons, and repairs

Mark 1 Iron Man Suit



- Built the very first ironman suit out of cardboard with electrical components

Foldable Bed/ Table In One



- Handmade and designed a foldable bed into a table to solve the solution of tight minimal spaces for my little rental room in University

HOBBIES AND INTERESTS

- Excelling in hands on experience; designing and developing electrical and mechanical devices including circuitry, woodworking, riveting and replica cosplay props
- Competed in **The Sears DX Canadian High School Design Competition**
 - ⇒ 2012-2013 Industrial Design: Designed an outdoor/indoor drinking fountain
 - ⇒ 2013-2014 Industrial Design: Designed a helmet geared towards teenage audience
- **Leaders of Unionville High School's Robotics team** and competed in the VEX Robotics competition
 - ⇒ Problem solved the multiple design errors throughout the design and competition stage
- Served the **Royal Canadian Air Cadets of Canada** for 5 years, attending 5 various summer aviation/ leadership training courses
- Competed in the **Cardboard Boat Competition** with my role as the designer and construction leader.
- Competed in the **National Dragon Boat** in Toronto for two years coming in first both years in the Non-Profit organization category
- Contributed in **UOIT's Formula SAE team** in the chassis and aerodynamic division to build a race car
- Director in **UOIT's ASME** (American Society of Mechanical Engineers) Group