

RAYYAN GHANI

rghani03@gmail.com

2A Mechatronics
Engineering

rayyanghani.me

SUMMARY OF QUALIFICATIONS:

- Skilled in **C++** and **Arduino programming language**
- Experience in **HTML, CSS, Javascript, jQuery**
- Worked with **AUTOCAD** and **Solidworks**
- Basic understanding of **Python**
- Thorough understanding of circuit theory and use of oscilloscopes and multi meters

WORK EXPERIENCE:

Toronto Transit Commission (TTC)

May 2015-August 2015

Information Security Office (ISO) – Information Security Administrator

Toronto, Canada

- Conducted and analyzed web application security tests using IBM AppScan Standard
- Assisted ISO in attaining compliance with the Payment Card Industry Data Security Standard (PCI DSS)
- Attained experience in using IBM AppScan Standard
- Grasped a detailed understanding of common web application vulnerabilities
- Gained a basic understanding of information security and recognized standards

TECHNICAL SKILLS AND PROJECTS:

Safe Night Device + Safe Night Android App

- Created a Bluetooth-controlled lock with a display and a temperature sensor to monitor and secure a small environment
- Arduino Bluetooth library was used to receive lock commands from an Android app (in development)
- Parts Used:
 - Arduino Uno
 - HC-05 Bluetooth Module
 - Servo Motor – used as lock
 - Temperature sensor

Fuel Cell Car Project

- Powered a small robotic car using a Proton Exchange Membrane (PEM) fuel cell
- Programmed car to follow a black line accurately with a time constraint using C++
- Learned how to work with MSP430 microcontroller and maintain a fuel cell's performance

LEGO NXT Final Project

- LEGO NXT held two containers and four sensors, coded in C++ to autonomously dispense seasonings
- Engineered a spice dispensing mechanism: used band saws, sanders, drill presses, and hand tools to build the part

VOLUNTEER EXPERIENCE:

2014 Guatemala Volunteer Service Trip

- Developed public speaking skills, and learned how to multitask trip responsibilities with schoolwork and clubs
- Responsible for marketing idea to stakeholders and parents, co-ordinating logistics for the trip, and leading the fundraising efforts for this initiative, raising close to \$5000

Oakville Trafalgar Memorial Hospital Volunteering (OTMH)

(June 2011 – May 2014)

- Gained interpersonal skills with co-workers, supervisors, and patients,
- Volunteered for 3 years assisting Patient Assistant Liaisons
- Tasked with serving meals, filing reports, and transporting specimens

2012 Summer Youth Leadership Development Program (YLDP)

- Understood how to implement ideas into fundraisers, and improved interpersonal skills with group members
- Planned, organized, and promoted fundraisers in Mississauga

EDUCATION:

Candidate for Degree in Bachelors of Applied Science –Honours Mechatronics Engineering (Co-Op), University of Waterloo, Sept 2014-Present

- Granted Waterloo Presidential Scholarship of \$2000

Ontario High School Diploma -Iroquois Ridge High School (IRHS), Oakville, Ontario

- 96% Average
- Award for Academic Excellence
- Highest mark in Grade 12 Physics

PROFESSIONAL MEMBERSHIPS, ACTIVITIES AND AWARDS:

- Granted bursary of \$1000 for excellence in hospital volunteering
- Elected for an executive position as the International Chair of the Interact Rotary Club at IRHS
- 1st Place in high school debate competition held at York University