TYURINA NIMALAKUMAR

2A Mechatronics Engineering

📞 **(647)-825-5404**
✉ **tnimalak@uwaterloo.ca**
🌐 **tyurina.github.io**

Summary of Qualifications

- Well versed in **C++**, **C**, and **Ladder Logic (PLC)** through course and project work
- Self-taught **VB, MS SQL**, **JAVA**, **XML**, **JavaScript** and **HTML/CSS** for personal projects
- Experienced in **Solid Works**, **AutoCAD** and **GD&T** by creating engineering drawings

Work Experience

Application Developer | Toronto Transit Commission — *May - Aug. 2015*

- Maintained a regularly used in house application (DPR) that archives all legacy TTC engineering drawings
- Organized and developed a search engine to increase efficiency of DPR using VB and C#
- Updated SQL server database and polished searching scripts using SQL queries
- Exceptional communication skills developed from preparing and presenting business plans to executives

Special Needs Camp Counselor | City of Brampton — *June - Aug. 2014*

- Supervised and organized daytime activities for teenagers and adults with a variety of disabilities
- Demonstrated **positive customer service** and was requested for additional contract work

Projects

Personal Website — *Sept. 2015*

- Built with Jekyll and developed using HTML /CSS to display up to date information about personal projects

Helping Hand Android App — *Sept. 2015*

- Collaborated with 3 peers to make a platform to post and assist others in achieving personal goals
- Customized the UI with Java/ XML and integrated Moxtra API to include a chat feature

Automated Transportation Robot — *Dec. 2014*

- Constructed a custom **NXT robot** to navigate and retrieve an object in an obstacle course
- Generated turning and lifting algorithms with C++ to control movement with NXT sensors
- Modeled a forklift mechanism using AutoCAD

Hydrogen Fuel Cell Car — *Oct. 2014*

- Used **MSP 430 microcontroller** to program a fuel cell car to follow a line around a terrain
- Won 1st place for efficient use of hydrogen fuel cells

Volunteer Experience

Peel Senior Home Volunteer — *2013 - 2014*

- Coordinated entertaining activities for seniors (ex. bowling, gardening etc.)
- Assisted with personal care including feeding and shopping

Leader, Fundraiser for Haiti — *May 2013*

- Organized a school wide coin drive that fundraised **$2700.00** for a Haitian charity

Education

Candidate for BASc, Mechatronics Engineering, University of Waterloo — *2014 - Present*

- Waterloo President's Scholarship of Distinction (95%+ average)

Notre Dame Secondary School, Brampton — *2010 - 2014*

- International Baccalaureate Diploma & French as a second language certificate

Clubs and Interests

- Member of Waterloo BioRobotics Club
- Website design & development
- Travelling & Geography
- Tae Kwon Do & Playing the Guitar