# Celina Hao Tang

### **UNIVERSITY OF WATERLOO – SOFTWARE ENGINEERING**

# **Work Experience**

#### Accedo - Multiplatform Developer, Toronto, ON

May 2017- Aug 2017

- Learnt BrightScript and Roku SDK 2.0 to develop on Roku TV
- Developed and integrated 7+ new on-demand features according to Proof of Concept and presented demos of the product to ensure a high degree of client satisfaction
- Debugged 60+ issues effectively within the existing code base, which eliminated app crashes and greatly improved user experience
- Implemented API calls and REST architectural style to dynamically display data from server
- Worked under Agile methodology for streamlined development and efficient collaboration
- Received positive customer feedback upon the successful launch of the SmartTV app

### Quanser Consultant Inc. – Software Developer, Markham, ON

Jul 2015 – Aug 2015

- Used dead reckoning with XY coordinates from encoders and gyroscope calculation to accurately track and efficiently transfer robot position over network
- Developed an image processing program with the Image Acquisition and Processing library to analyze RGB data with the Xbox360 Kinect
- Analyzed depth data and successfully manipulated the acquired data to map the surrounding area, which is used in the path planning algorithm
- Presented at National Instrument Week in Texas at the product launch demo

# **Projects**

BoosterCat Sep 2016 - Nov 2016

- Utilized data from accelerometer and temperature sensor to provide a more realistic experience of a per simulation
- Utilized the LCD screen for displaying game content and user interface

## Extracurricular

#### FIRST Robotics Team 4001 – Team Captain & Lead Programmer

Sep 2012 – Jun 2016

- Led a team of 85 members to win FIRST Robotics Competition Greater Toronto Central Regional and played in the World Championship quarterfinals
- Developed an automated control program with Proportional Integral Derivative control, which improved robot performance on scoring by 40%
- Presented robot design, programming logic, and mechanics to the judges, which won Engineering Inspiration Award, Creativity Award, and Industrial Design Award
- Taught introductory lessons on programming to 40 different high schools in the region

### The Axiom School Newspaper – Editor-in-Chief

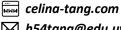
Sep 2012 - Jun 2016

- Supervised a team of 35 members to write articles on school-wide events, global issues, and club activities, and successfully reached 100+ monthly views
- Edited articles and other materials submitted for publication to improve readability and confer with reporters regarding changes in content, style or organization

👿) github.com/celina-tang



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### **Technical Skills**

### Languages:

C/C++ Pvthon LabVIEW

#### Web Development:

HTML CSS

**RESTful APIs** 

#### Hardware:

Roku Texas Instrument: roboRIO, myRIO Arduino Xbox 360 Kinect

### Data Representation and Relational Databases:

JSON/XML

"Celina is an extremely fast *learner, is attentive to detail* and is able to analyze challenging technical scenarios and either provides a solution or asks the right questions to be able to provide the solution to a challenging technical problem." - Michael Wojciechowski, Chief **Technology Officer** 

### Education

### **Candidate for Bachelor of Software Engineering**

### University of Waterloo

Waterloo, ON

Expected Graduation Date: 2021