

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
 [linkedin.com/in/celina-tang](https://www.linkedin.com/in/celina-tang)
 celina-tang.com
 h54tang@edu.uwaterloo.ca

Technical Skills

Languages:

C/C++
Python
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