Celina Tang
SOFTWARE ENGINEERING

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Experience

Accedo – Multi-Platform Developer
Toronto, ON | May 2017- Sep 2017
- Implemented support for podcasts, completed with skipping, replay, and fast-forward functionalities
- Designed dynamic playlist display and optimized focus control for Smart TVs
- Enhanced user login system to allow for curated playlist and other personalized features
- Replaced old API structure to increase efficiency and handle premium user accounts

Quanser Consultant Inc. – Software Developer
Markham, ON | Jul 2015 – Aug 2015
- Incorporated 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 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 a path planning algorithm

FIRST Robotics Team 4001 – Team Captain & Lead Programmer
Thornhill, ON | Sep 2012 – Jun 2016
- Led a team of 85 members to win FIRST Robotics Competition Greater Toronto Central Regional and placed top 10 in the World Championship
- Developed an automated control program with Proportional Integral Derivative control to improved robot performance on scoring by over 40%
- Won Engineering Inspiration Award, Creativity Award, and Industrial Design Award based on innovative robot design, programming logic, and mechanics
- Taught introductory programming lessons to 40 different high schools in Toronto

Projects

BoosterCat
Sep 2016 – Nov 2016
- Implemented an immersive pet simulator on the Tiva C Launchpad
- Retrieved data from the accelerometer and temperature sensor
- Utilized the LCD screen for displaying game content and user interface

Languages
- C/C++
- Scala
- Python
- LabVIEW
- HTML/CSS
- JavaScript

Tech/Tools
- Git
- Bash
- Vim
- Intellij

Hardwares
- ARM
- Arduino
- Raspberry Pi
- Xbox 360 Kinect

Education

Bachelor of Software Engineering
University of Waterloo
2016 - 2021

Interests

ART: Watercolor/Acrylic painting, Sketches, Photography

GAMES: Elder Scrolls Five: Skyrim, Beholder, Witcher 3: The Wild Hunt, Don't Starve Together