






BrianHo

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SKILLS

Languages: Java, C++, C, HTML/CSS, Python, JavaScript

Frameworks: Android, Swing, Qt

Libraries: OpenGL ES 2.0

Tools: Android Studio, Git, SVN

EXPERIENCE

Epson Canada Limited - Software Developer

Apr 2016 – Aug 2016

- Developed Android applications for Epson Moverio (augmented reality glasses)
- Solved Android UI hanging by implementing asynchronous loading of 3D models in apps
- Utilized OpenGL ES 2.0 to dynamically render a 3D refined icosahedron for object training and tracking based on user perspective and depth
- Designed UI and improved functionality for internal applications using Qt and C++
- Demonstrated potential of glasses technology to foreign stakeholders and executives

FIRST Robotics, Team 4343 - Team Captain and Mentor

Sep 2011 – Present

- Implemented PID controller for various subsystems
- Taught students Java and object-oriented programming concepts

PROJECTS

VirtualDice (Android)

Aug 2016 - Present

- Emulates a real die, faces of the die is randomly generated and drawn using OpenGL

SuperAutomator (Java)

Jun 2013

- Multi-threaded timer and MP3 player built using Swing
- Improved daily routine of high school administration staff by automatically playing the announcements and National Anthem since 2013

Mayo (Java)

Oct 2015

- Educational themed painting program that utilizes the Myo Armband's gesture capabilities
- Mapped gestures to functions of the paint brush (changing colours, brush size)

Tetromino Simulator (C and Java)

Oct 2015 - Dec 2015

- Tetris game developed using Java and controlled by an Arduino microcontroller

AWARDS

President's Scholarship of Distinction - University of Waterloo

Sep 2015

Town of Aurora Scholarship (Highest academic average: 97%)

Jun 2015

Leadership Award - York Secondary Catholic Presidents' Council

May 2015

EDUCATION

Candidate for Bachelor of Software Engineering – University of Waterloo

Sept 2015 – Apr 2020

HOBBIES / INTERESTS

Robotics, PC Building, 3D Printing, Swimming, Running, Badminton, Table Tennis, Travelling