

MICHAEL(ZICHUN) LIN

SOFTWARE DEVELOPER

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(780) 716-4073

Profile

Current first year undergraduate student at University of Alberta, major in Computing Science. Have experiences from working on Arduino, Linux server, and robotic related projects. Co-founder of Robot Club during High School in 2014.

Personal website: michaellin.me

Linkedin: ca.linkedin.com/in/michaellinlzc

Github: github.com/ExiaSR

Projects

vfree.org

Python, Django

2016-Present

Co-funder of vfree.org, provide free open source technology to the world and encourage people to contribute to open source community. Implement Django, provide Git service, cloud storage, and Wiki page. More features are still under developing.

Maze

Python, Graph Theory

2016

Written in Python with the implementation of Graph Theory. The algorithm is designed to create many intersections to confuse the player. In order to have more fun, only the area within a certain area is visualized to the user. Also, there is a random drop that will display the path to exit for a few seconds.

2048 Embedded Edition

C++, C, Arduino

2015

Implement one of the most popular mobile games on Arduino. This project uses a TFT screen to display and allows the user to interact with a joystick.

Quadrator

C++, ROS, Linux, SLAM

2014-2015

Leading the Robot Club in a team of 5 developed an autonomous robotic system that uses a Kinect to scan a 3D model of its surrounding in real-time and wirelessly transmit it to the base station. The project is accomplished. With the well-organized collaboration between team members, without our partnership, we would not get the work done.

Autonomous ModuleBot

C++, C, OpenCV, Arduino, Java, Android

2014-2015

An autonomous snake robot that has multiple gait implementation and face detection that is used for search and rescue missions. The camera output is sent to an Android application. While working on this project, I mainly worked with the code that implements different gaits and communicated with the team to implement the robot with Android application and camera at the same time.

Experience

Volunteer — Chengdu, Sichuan, China

Teacher Assistant

2012 summer and 2013 summer

Volunteer as a TA in Countryside Teacher project at Guangya School. Countryside Teacher Project: working with volunteer English teachers from all over the world to help English teachers from the northwest territories in China, specifically Sichuan area, improve their teaching technique and English knowledge.

Guangya School — Chengdu, Sichuan, China

Linux Server Admin

2014-2015

Server maintenance, including Moodle, cloud storage, web server, etc. Also provide VPN service from an overseas VPS to the school.

Technical

HTML	CSS	C/C++
Python	Django	Git
Linux/Unix	OS X	

Education

University of Alberta — Edmonton, AB, Canada

BSc with honors, Computing Science

2015-Present

GPA: 3.5

Relevant courses: Introduction to Tangible Computing I & II, Calculus I & II, Linear Algebra I & II

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