

Lingyi Wang Electrical Engineering Student

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TECHNICAL SKILLS

Programming Languages

- Java, C
- Verilog
- Assembly

Development Framework

- Visual Studio, Eclipse
- ModelSim, Altera, Quartus
- Office, MATLAB, SolidWorks

Apparatus

- Oscilloscope
- Signal Generator
- Multimeter, Breadboard

Interests

- Piano, Ukulele
- Contemporary dance

EDUCATION

University of British Columbia

Expected May,2022

Bachelor of Applied Science - Electrical Engineering

- Bachelor of Applied Science in Electrical Engineering; 3 of 8 academic terms completed

TECHNICAL PROJECTS

Claw Retrieval System Project, UBC

January 2017 – March,2017

- Controlled the torques and the degrees of rotation of the claw by coding on Arduino which interfaces with a sonar sensor and a servo motor
- Drew and designed the shape of the claw first, then manipulated various types of tools to construct the real model, worked through Engineering ethics: prototyping, iterating, testing process, and the rest

Maze Solver Algorithm, UBC

October,2018 – November,2018

- Implemented (C code) backtracking (depth first search) to calculate the correct path through a maze, the shortest path, the cheapest path, and cheapest path cost and debugged efficiently to past all the test

Simple RISC Machine, UBC

September,2018 – November,2018

- Built a simple CPU step by step from writing the Datapath and simple state machine, filling ALU with LDR and STR instructions and further extending the Datapath for including memory to hold instructions
- Debugged 5 hours per week by observing waves and writing testbenches

OTHER WORK EXPERIENCE

Tide Initiative Inc, Shanghai

April,2018 – Present

APP developer & Curriculum design & Human resource & Task management

- Used Xcode to program and design the front-end TIDE Application (in charge of the user page)
- Designed online video format curriculums based on CBT, DBT, and ACCEPTS method
- Checked applicants' resume, interviewed outstanding applicants, and assigned them position based on their specialties and skills, tracked every worker's progress, and wrote report each week

Ejia Education, Xinxiang, Henan

July,2017– August,2018

English Tutor

- Presented courses, designed problem sets based on student's mistakes, edited students' writings

VOLUNTEER EXPERIENCE

Me TO WE Charity SALE 1, Zhengzhou, Henan

April,2016 – June,2016

Club Leader & Outreach & Salesperson

- Worked at the cashier dealing with cash and counted cash flow at the end of the work shift.
- Attended to the customer's questions and inquiries regarding the pricing and tastes.