

# YI-ZIAN LIN ( 林易賢 )

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Portfolio( Github ) : <https://github.com/Zianwalk/Personal-portfolio>

## WORKS

### Interpreter for Scheme • C++

Personal Work. ( C++ base , supports lisp basic operations, all the operations can be combined and defined as a new function. Moreover, it can recursive more than 50 layers ).

Thousands lines of code, I have got learn the communication between functions and systematic planned the whole program.

### Vision-based robot arm for basketball shooting using monocular camera • Python

A robot arm handmade by students. ( Based on raspberry pi and Arduino uno )  
Can catch the object we need by photo, then give the distance between the robot arm and object (1-meter range within +- 2 cm error )

What it can do is to catch the photo by pi-camera and our program will analyze the distance between the robot arm and object ( basket ). Next, the program will control the robot arm rotate to face the object, then prepare for shooting, and got shoot.

### Pipeline CPU ( MIPS ISA, teamwork ) • Verilog

TeamWork. I'm responsible for the ALU unit and connecting the wires between 5 stages.  
Learn a little hardware design knowledge, like CLK, forwarding, and stall.

## Education



2017 - 2021

**Chung Yuan Christian University**

**Information and Computer Engineering**

## skills

- C/C++
- Python
- JAVA

## language

- English
- Chinese