Eric Pang

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thedoughnutman.github.io EricPang

Diamond Bar, CA - Fullerton, CA

EDUCATION

Troy High School 2020 - 2024 Engineering Tech Pathway

PROGRAMMING LANGUAGES

C++ Java
C# Scratch
HTML CSS

Python (NumPy, OpenCV)

TECHNOLOGIES

Git Ver. Control/Collaboration Jupyter Notebook

Unity Unreal Engine
SOLIDWORKS Fusion 360
VirtualBox VMware
GNU/ Linux WPILib

Windows Consumer Windows 2019 Server

TECHNICAL KNOWLEDGE

Cyber

- Team Captain
- Platinum all years
- Semi finalist two years
- Windows Server
- Windows Intermediate instructor

Engineering

- Contributed to robot climber system
- Ball recognition code was incorporated into final product
- Webmaster

Teaching

- Instructed english to Chinese Children overseas since 2020
- Children can now hold full conversations about their day

WORK EXPERIENCE

Troy Robotics Fullerton, CA

Build, Software, and Design Member Jan 2021 - Present

Webmaster Jan 2022 - Present

Ignia Education Diamond Bar, CA

Teacher Mar 2020 – Sep 2022

CyberPatriot Fullerton, CA

Instructor Sep 2021 - Present

NHS Fullerton, CA

Member Sep 2022 – Present

Violin Section Leader Sep 2022 – Present

PROJECTS

Orchestra

Colored Ball Recognition Team GitHub FRC2022-BallRecognition

Python (NumPy, OpenCV)

Troy Robotics code for ball detection and recognition

Code deployed into 2022 FRC season build pipeline

Self Balancing Skateboard Fabrication

C, Arduino, PWM, PID, IMU 6 Axis Gyroscope Accelerometer

- Fabrication using Troy Robotics Workshop tools
 - Built using old obsolete FRC hardware
 - Blog documenting the complete fabrication process

Personal Website Website

HTML. CSS

First Written in Middle School

Incorporated web emulation for retro game consoles

Playable example deployed on Revision 7

Added netplay functionality

Robotics Website Website

HTML, CSS, JavaScript

• First Webmaster to completely handwrite a website

Local Group Policy Settings

inf (Windows Setup Information)

• File included for windows security hardening

Gentoo Configuration

Xorg, DWM

Custom configuration for Lenovo Thinkpad Ivy Bridge chipsets

Purpose built kernel for maximum battery life

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Blog

website

Local-Group-Police

Configuration