Justin Thai

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Objective:

To grow and apply my computer science skills in real world applications.

Education:

Dublin High School, Dublin, CA 4.0 GPA
High School Diploma, Class of 2020

Coursework:

Computer Science Principles
Honors Principles of Engineering
AP Computer Science Applications
Biology with Research
Honors Chemistry
Algebra I & II
Geometry
Trigonometry w/ Precalculus

Relevant Skills:

I am proficient in Java, Python, as well as Spanish. I am also familiar with C, SQL, HTML, CSS, and Javascript

Activities:

Engineering Academy—CS Pathway
Piano, Certificate of Merit Level 9
Kung Fu
Tri Valley Aquatics Swim Team

Projects:

AP CSA: Recipe App

As a 3-person team, we created an Android app to provide recipe recommendations based on the quantity of ingredients available to the user. I designed the structure of the ingredient and recipe databases for efficient access by the program, and wrote the functionality for inputting ingredients and recommending recipes.

Honors POE: Mechanical Winch

Our team created a winch that uses an electric motor and its power supply to lift various weights. I was responsible for the program that modelled how the winch would run with input parameters such as voltage applied to the motor and amount of weight lifted. My model was compared to the actual winch that we built.

Machine Control—Elevator Project

We created a model elevator that services three floors with the help of sensors and buttons intended to emulate the actual controls. In addition to setting up the sensors for the elevator in our model, I was also in charge of designing the logic used to move the elevator to the desired floors.

CSP: Hangman Game

Our team designed a Python game in which the user inputs letters or words to guess the hidden word chosen by the game. I programmed the code that analyzed the user input to compare the guesses to the keyword.