JOHNNY NGUYEN

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EDUCATION

University of California, Los Angeles
Mechanical Engineering, B.S. (Expected June 2022)
GPA: 3.9/4.0
Activities: Bruin Racing, UCLA Esports

RELEVANT COURSEWORK

Mechanisms and Mechanical Systems, Transport Phenomena, Fluid Mechanics, Statics, Dynamics, Thermodynamics, Science of Engineering Materials

PROJECTS

Sliding Tabletop Design, *Fall 2020*
- ❖ Designed a mechanism to create horizontal motion from a motor input
- ❖ Simulated and optimized design using MATLAB

3-D Printed Macropad and Keyboard, *Summer 2020*
- ❖ Designed a macropad and keyboard from scratch in Solidworks
- ❖ Manufactured using 3-D printed PLA plastic and hand wired to a Pro Micro
- ❖ Programmed firmware using Arduino IDE and QMK Configurator

Pandemic Modeling, *Spring 2020*
- ❖ Used stochastic SIR- and SEIR-models to model a pandemic in MATLAB
- ❖ Analyzed effects of preventative measures such as lockdowns

Music Transcription Device, *Fall 2019*
- ❖ Created a program in Python to transcribe piano music into sheet music using fourier transforms and spectrograms
- ❖ Performed analysis with a team to find potential shortcomings of our tool

3-D Printed Rubber Band Car, *Fall 2019*
- ❖ Designed a rubber band powered car from scratch in Solidworks
- ❖ Manufactured using 3-D printed ABS plastic
- ❖ Collaborated with a team to refine and optimize our design

WORK EXPERIENCE

UCLA Court of Sciences Student Center, *November 2018 – December 2019*
Food Service Worker
- ❖ Take orders for, prepare, and serve food and drinks to customers
- ❖ Collaborate with coworkers to solve unexpected problems

LEADERSHIP

Captain, UCLA Hearthstone Team, UCLA Valorant Team, *September 2019 – Present*
- ❖ Plan and lead team practices

Science Field Day Coordinator, Mark Keppel High School, *September 2017 – May 2018*
- ❖ Planned science competition for hundreds of middle school students
- ❖ Managed over 100 volunteers and a large team of test creators and proctors

Treasurer, Mark Keppel High School Academic Decathlon, *May 2017 – May 2018*
- ❖ Fill out check requests, plan fund usage, and organize fundraisers
- ❖ Coordinate club events and facilitate board meetings

SKILLS

Microsoft Office, SolidWorks, Matlab, Java, Python, C++, 3D Printing