THITI KHOMIN

Email: thiti.khomin@berkeley.edu Cell: (530) 407-2728

EDUCATION

University of California, Berkeley **| Expected Graduation: 2021 |** **August 2017 - Present**

Overall GPA: 3.82

Mechanical Engineering, B.S., Electrical Engineering and Computer Science, Minor

ENGINEERING EXPERIENCE

Berkeley Formula Racing (Brakes and Driver Interface Sub-team), Berkeley, California **January 2018 - Present**

-Design, tested, and modified different components within brakes and driver interface of a race car

-Made test plans to optimize brake pedal ratios for performance using MATLAB

-Utilizing Finite Element Analysis, designed heel rests and pedals with minimal weight while maintaining function

-Integrated and routed the brake system for the car

Kasemyont Supply Co., LTD. (Mechanic), Bangkok, Thailand **Summer 2018**

-Understanding the in-and-outs of mechanical systems

-Hands-on experience working with interconnecting sub-systems of a car

-Diagnosed problems associated with different system malfunctions.

PROJECTS AND RESEARCH

Wind Turbine Project (Three-Dimensional Modeling for Design), Berkeley, California **August 2018 - December 2018**

-Objective: Prototype a miniaturized model of wind turbines with efficient power generation

-Integrated solid mechanics and aerodynamics to design a wind turbine blade and tower structure using SolidWorks

-3D Printed and tested turbine on its power output and ability to withstand load.

Chulalongkorn University (Researcher/Teaching Assistant), Bangkok, Thailand **January 2016 - August 2017**

-Designed and reworked lab material in order to teach first-year college-level physics to visually impaired students

-Created an auditory program to read math/physics equations on textbooks.

-Participated in university conferences to explore insights on techniques other schools have implemented.

COMMUNITY SERVICE

Baan Nokkamin Foundation (Team Leader/Head Architect), Bangkok, Thailand **October 2015 - June 2017**

-Objective: Provide a self-sustaining learning environment for orphans ages 4-22 (throughout college)

-Formulated and implemented a library interior layout in the orphanage

-Taught college-level maths and physics for orphans planning to go to community college

RELEVANT COURSEWORK

Taken:	**ME 132:** Dynamic Systems and Feedback	**E26:** Three-Dimensional Modeling for Design
	EE16A: Designing Information Devices and Systems	**ME C85:** Solid Mechanics
	ME40: Thermodynamics	**E7:** Programming for Scientist and Engineers
Currently Taking:	**ME131**: Vehicle Dynamics and Control	**EE49**: Internet of Things
	ME102B: Mechatronics Design	**E27**: Manufacturing and Tolerancing

SPECIALIZED SKILLS

Programming: MATLAB | Simulink | Swift | Python |

Computer Aided Design: SolidWorks | AutoCAD |

Programs: Adobe Creative Suite | Photoshop | Final Cut Pro | iMovie | Microsoft Office | Google Suites |

Languages: English (Proficient) | Thai (Proficient) |