

KIM HOANG DO

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EDUCATION

University of Southern California

Los Angeles, CA

- Bachelor of Science in Electrical and Computer Engineering

August 2019 – May 2023 (Expected)

BASIS Oro Valley Upper School

Oro Valley, AZ

High Honors Graduate, AP Scholar with Distinction

August 2014 – May 2019

- Awarded the 2018 Engineering and Technology Student of the Year: Recognized as the top student for being detail-oriented, sophisticated, and hard-working in all team projects

TECHNICAL SKILLS

- AutoCAD, C++, Python, Interactive Data Language (IDL), HTML/CSS, Microsoft Excel, Powerpoint, and Word

PROJECTS

NASA's Mars Reconnaissance Orbiter (MRO) Mission

Tucson, AZ

Research Intern

November 2018 – August 2019

- Conducted 200+ hours of data analysis and algorithm of Mars's atmospheric properties during its 2018 Summer Global Dust Storm by using Python and IDL to translate the direct, raw data to graphs
- Presented an 18-page research paper at a conference at Icagen to discuss the discovery that Mars's atmospheric temperature increases when a global dust storm occurs while relating the results to Mars's future colonization project
- Operated the Kuiper 61" telescope at Mt. Lemmon Observatory to analyze the composition of Comet 46P/Wirtanen

2020 Boeing Design Challenge

Los Angeles, CA

Team Member

March 2020

- Contested against 15 other teams and received 3rd place for presenting one of the best solutions for creating a Solar, High, Altitude Long Endurance (SHALE) Vehicle that maximized communication range while minimizing cost
- Constructed the technical drawing of the aircraft and assisted with calculating the cost with excel in 90 minutes

University of Arizona's Solar Oven Design Team

Tucson, AZ

Project Leader

October 2017 – January 2018

- Designed the dimensions, measurements, and technical drawing with AutoCAD based on the calculated equations developed in Excel to construct the most efficient and inexpensive solar oven
- Competed against other teams and achieved 1st place for having the highest calculated temperature value and the lowest error value of 0.15% compared to the predicted value of temperature

WORK EXPERIENCE

Baggin's Gourmet Sandwiches

Marana, AZ

Baker, Cashier, and Server

February 2019 – July 2019

- Communicated effectively with other associates to exhibit a cooperative and positive working environment
- Performed all responsibilities accurately and efficiently under-pressure to ensure maximum production

Northwest YMCA Summer Camp

Marana, AZ

Camp Counselor and Event Coordinator

July 2019

- Instructed and supervised children through group bonding activities and outside physical games for fun experiences
- Implemented STEM and art-based programs that promoted creativity and growth

LEADERSHIP EXPERIENCE

National Honors Society

Oro Valley, AZ

President

February 2018 – February 2019

- Volunteered 230+ hours at many community services projects that promoted toy, food, and clothing drives
- Managed 5 committees that included school dances and talent shows to foster school spirit and culture
- Planned the agenda, assembled meetings, and oversaw officer duties to have a coordinated and organized club
- Established academic workshops to prepare high school students for college applications and scholarships

Engineering Society

Oro Valley, AZ

President

August 2018 – February 2019

- Implemented projects to enhance classroom needs such as building bookshelves, theater equipment, computers, etc.
- Directed the Engineering Expo for K-5th students to inspire them into the STEM Field (ex. coding and 3d-printing)