

KEVIN OGHALAI

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WORK EXPERIENCE

Field Service Engineer

Honeywell

July 2024 – Present

Sacramento, CA

- Program and install controllers and actuators for HVAC systems in commercial buildings.
- Maintain security systems, fire alarms, and other building automation systems.

Technical Writer Intern

Northrop Grumman

May 2023 – July 2023

Palmdale, CA

- Created technical documents and instruction manuals.
- Helped create lessons for technical writer training course for College of the Canyons.

Property Manager

Nguyen Rentals

September 2019 – Present

Los Angeles, CA

- Helped tenants with plumbing, heating, appliance, etc. issues. Regularly inspected units, fixed basic issues, and communicated more serious issues to owners.

ACHIEVEMENTS

Research

January 2019 – Present

- Robotics research with UC Davis Manufacturing and Sustainable Technologies Research (MASTeR) Lab.
 - Designed and tested a non-contact robot calibration system using computer vision to improve the accuracy of robotic arms.
 - Evaluating the effects of simulator training on operators of heavy construction equipment, such as excavators and loaders.
- Designed, planned, and prepared user studies for the USC Haptics, Robotics, and Virtual Interaction lab.
 - Designed a study to test the effects of stochastic resonance through electrical stimulation on distinguishing virtual textures. This involved programming and wiring the software and hardware needed for these projects.
- AI with molecular Dynamics simulations for the USC Branicio Lab.
 - Used machine learning frame works, such as Tensorflow and PyTorch to assist in molecular dynamics simulation experiments.
- Data Analysis for the USC Otolaryngology Lab.
 - Programmed a data analysis tool to take 3D data and extract features of interest automatically. The features were checked for accuracy. The program was used to analyze the results of various hearing loss treatments, resulting in a publication.

Vice President of Mechanical Contractors Association of America Club

August 2021 – May 2022

- Wrote mock bids for student competitions, one of which resulted in a \$1,000 cash prize for the club. I also helped to plan meetings, activities, and trips.

CERTIFICATIONS

Engineer In Training(EIT) | Board for Professional Engineers, Land Surveyors, and Geologists

8/25/2023

EDUCATION

University of California Davis

PhD in Mechanical Engineering - GPA: 4.0

August 2024-Present

Davis, CA

University of Southern California

Master of Science in Mechanical Engineering - GPA: 3.8

2023-2024

Los Angeles, CA

University of Southern California

Bachelor of Science in Mechanical Engineering - GPA: 3.6

2019-2023

Los Angeles, CA

SKILLS

Software: Microsoft Office Suite, ROS/ROS2, VBA, NX Nastran, Solidworks, Omniverse, BlueBeam, Isaac Sim

Languages: Java, Python, Matlab, C++, LaTeX