

William Nuveen

San Francisco, CA • wnuveen3@gmail.com • 701-213-5581

PROFESSIONAL EXPERIENCE

KINDRED AI (NOW OCADO TECHNOLOGY)

San Francisco, CA

Mechanical Engineer II - Robotics Product Development

Sept. 2022 - Present

- Contributed significantly to the end-to-end design & development of Ocado's first AI/ML driven robotic depalletizing system, resulting in successful deployment at a fulfillment center in London in Q4 2024
- Managed the hardware installation and integration of the San Francisco PoC test cell, paving the way for future production deployments
- Leading hardware design for a portable trade show model of the robotic depalletizing system, enhancing brand visibility and generating sales
- Optimized depth/RGB camera selection and implementation, boosting system throughput by 25% and improving pick & placement accuracy from 92% to 98%
- Conducted load calculations and FEA analysis for securing a 1,250 lb robotic arm to a pedestal on concrete, specifying anchors and adhesives for 100% safety compliance and reliable installation
- Collaborated in the design and prototyping of an electromechanical end-effector, enhancing payload capacity to 80 lbs and improving versatility in item handling

NEATO ROBOTICS

San Jose, CA

Jr. Mechanical Engineer – Product Design

Aug. 2020 - Sept. 2022

- Designed, prototyped, and manufactured injection-molded components for Neato's first commercial robotic vacuum (Nexaro NR1500) now sold globally by Vorwerk
- Led end-to-end development of innovative robotic vacuum accessories, including a pet brush and fragrance filters, resulting in an increase in accessory sales and enhancing overall product ecosystem
- Redesigned next-generation robotic vacuum drivetrain, improving motor efficiency, reducing noise levels by 40%, and cutting production costs by \$2 per unit while extending product lifespan
- Played a key role to the design of Neato's first self-emptying charging station and mopping robot, ensuring compatibility with future models and enhancing user experience
- Led Neato's emerging technologies program, identifying cutting-edge solutions in charging systems and sensor technology, with the goal of positioning Neato as an industry innovator

EDUCATION & CERTS.

MIAMI UNIVERSITY

Oxford, OH

Bachelor of Science in Engineering, Major in Mechanical Engineering

2016-2020

GD&T CERTIFICATION

Toronto, ONT

[2-B Quality GD&T Certification - ASME Y14.5-2009]

SUMMER 2024

PROFESSIONAL SKILLS

- **Project Management:** Arena & ARAS PLM, Confluence, Jira, BOM management
- **Mechanical Engineering:** Solidworks, Creo, GD&T, DFM&A, FEA
- **Manufacturing:** Injection Molding, 3D printing, Machining, Laser cutting, Sheet metal