

William Nuveen

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PROFESSIONAL EXPERIENCE

KINDRED AI (NOW OCADO TECHNOLOGY)

Mechanical Engineer II - Robotics Product Development

San Francisco, CA
Sept. 2022 - Present

- **Robotics Development & Design:** One of four mechanical engineers developing Ocado's first autonomous AI/ML-driven robotic depalletizing / palletizing system.
 - Conducted a research spike, designed hardware, and tested system performance prior to deployment at an Ocado fulfillment center in London in Q4 2024.
 - Epic lead for the successful hardware installation and integration of the system's test cell in the SF office paving the way for future production deployments.
 - Leading the hardware design for a traveling trade show model of the autonomous case-handling system to be displayed in 2025.
 - Completed a comprehensive KPI test process to identify and integrate the top-performing consumer depth/RGB camera, resulting in a **25%** increase in units picked per hour, boosting throughput.Consultant on Depth/RGB camera technologies for Ocado's on-grid picking and advanced-tech teams.
- **Mechanical Fundamentals:** Performed load and FEA analysis for securing a 1,250 lb robotic arm to a pedestal while specifying concrete anchors and adhesives to ensure safe and secure installation.
- **DFM&A & GD&T:** Collaborated in the design, prototyping, and assembling of Ocado's next-generation electromechanical end-effector capable of handling up to 80 lb items.

NEATO ROBOTICS

Jr. Mechanical Engineer – Product Design

San Jose, CA
Aug 2020 - Sept 2022

- **GD&T & DFM&A:** Designed, prototyped, and manufactured injection-molded parts for two robotic vacuum products, including dustbins, filters, drivetrains, motors, mopping components, and LiDAR integration.
 - Led development of injection-molded products and accessories from concept to consumer delivery
- **Product Design:** Designed Neato's next-generation robotic vacuum drivetrain, by improving efficiency, minimizing noise, lowering maintenance, and reducing production costs by **\$2** per unit.
- **User Experience Design:** Created a user-friendly design for Neato's first robotic self-emptying charging stations, ensuring compatibility with future robotic vacuum models.
- **Project Management:** Led Neato's emerging technologies program, exploring new technologies in charging systems, sensor integration, and mechanical architecture.

EDUCATION & CERTS.

MIAMI UNIVERSITY

Bachelor of Science in Engineering, Major in Mechanical Engineering

Oxford, OH
2016-2020

GD&T CERTIFICATION

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

Toronto, ONT
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