Kyle Nip

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Work Experience

Manufacturing Engineering Intern Jul 2023 - Sep 2023

Noah Medical San Carlos, CA

- Design, build, and implement a testing fixture for testing electro-magnetic sensors for fatigue failure.
- Design, build, and implement a length inspection fixture to reduce measurement time.
- Conducted failure analysis on robotic system hardware and updated process instructions to mitigate subsequent failure.
- Worked with Quality Control and R&D to generate and implement ECO.

Advanced Development and Concepts Intern Jun 2022 – Sep 2022

Carl Zeiss Meditech Dublin, CA

- Tested electrical components and troubleshooted electrical failures for prototype systems.
- Adapted research papers to simulate device outputs and narrow down replacement part candidates as well as establishing new device requirements.
- Developed blind study with clinical specialists to determine the impact of potential component replacements.
- Designed a chassis in SolidWorks for a product prototype.

Manufacturing Intern Jul 2020 - Dec 2020

Noah Medical San Carlos, CA

- Modified part design and CAD models in SolidWorks.
- Prototyped an Arduino based catheter pressure tester to replace expensive alternative.
- Perform incoming inspection with calipers, micrometers, and inspection scopes.

Education

University of California, Santa Cruz Sep 2019 - Dec 2023

Bachelors in Robotics Engineering Santa Cruz, CA

Minor in Electrical Engineering

SolidWorks Certifications: CSWA - Mechanical Design, Advanced Drawings and Assemblies.

Projects

Robotics Competition Apr 2022 - Jun 2022

Designed a robot model from scratch in SolidWorks. Designed multiple circuits on perforated boards to adapt sensors for a robot. Programmed robot behavior in C using a microcontroller to deposit objects in towers emitting special frequencies while avoiding obstacles.

Capstone Project Sept 2022 - Jun 2023

Designed PCB for power distribution and adapted custom-made inductor to sense different cars. Milled PCB using CNC. Designed chassis on SolidWorks and stress tested/validated for car collision on SolidWorks simulation.

Skills

Software: SolidWorks, MATLAB & Simulink, PSpice, EAGLE, Cura, Microsoft Office, V-Rep Coppelia Simulator (PID Controllers and Feedback Control Systems)

Programming Languages: C, C++, C#, Verilog, MIPS, Python