Kim Tran

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SKILLS

Mechanical Design: DFM/DFA, Electro-mechanical, Statistical Analysis, Cabling, Prototyping, Optics, LEDs
Manufacturing: Tooling, Machining, Sheet metal, Casting, Injection Molding, Gasket Molding, PCB/PCBA
CAD/FEA: SolidWorks, 3DX, ProEngineer/PTC Creo, AutoCAD, ANSYS, CATIA V5
Data Management: MS Office tools (Word, Excel, PowerPoint, etc.), SAP, Glovia, PaperVision, PDM
Soft Skills: Written and verbal communication skills, excels in a collaborative and team-based environment, experienced in multi-disciplinary teams for optimized integration, quickly adaptive, analytical

EXPERIENCE

Mechanical Development Engineer | SIGNIFY VARI-LITE

Jan. 2024 - Present, Dallas, TX

- Engineered robotic LED fixtures and operator consoles using metallic designs/components in SolidWorks; performed tolerance stack-ups; form, fit, function analysis; created and modified drawings using GD&T per ASME Y14.5.
- Experienced with electrical installation designs for integrated shielded power and signal cabling, connectors, and harnesses/interfaces using AutoCAD, ensuring UL/ETL electromagnetic compliance.
- Led laboratory hardware development and build up of optical test systems with LEDs/lasers during bench tests; performing integration, test, and troubleshooting of hardware/software configurations.
- Drove build-to-packages efforts for electro-mechanical stage fixture parts, assemblies, and installations; working with operations and suppliers to reduce complexity, troubleshooting, improving throughput, and control cost.
- Developed and specified production machinery, tooling, and assembly jigs to meet schedule, quality, and safety requirements in a regulated manufacturing environment.

Mechanical Development/Design Engineer Intern | SIGNIFY VARI-LITE

Sep. 2022 - Dec. 2023, Dallas, TX

- Collaborated with a cross-functional team to develop a robotic fixture bracketry; created detailed drawings of sheet metal and machined parts with GD&T (ASME Y14.5).
- Selected robotic motors, calculated required torque based off predicted bearing loads, and designed gear train systems to meet performance targets.
- Collected sensor data (potentiometers, magnetometers, IMUs) to optimize pan/tilt motion.

Manufacturing Engineer Intern | SAFRAN ELECTRICAL & POWER

June 2022 - Aug. 2022, Denton, TX

- Analyzed electrical systems for aircraft equipment installation designs on military aircrafts (V-22, F-35, B-2, GMD) and created automated work instructions with MS Access to streamline production.
- Improved tooling database efficiency and reduced losses by automating with SQL, Access, and Python.
- Managed ERP processes such as routings, ECNs, and approvals using SAP software.

EDUCATION

Bachelor's of Science in Mechanical & Energy Engineering | UNIVERSITY OF NORTH TEXAS

U.S. Citizen with the ability to obtain secret security clearance