Evan Mckenzie

Experienced Engineering Professional seeking a position to apply technical skills at companies developing electromechanical products.

📍 Irasburg, VT

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SKILLS

Languages

Python · MATLAB · C/C++

HTML

Software

SolidWorks · Fusion360

Abaqus · AutoCAD · MS Office

Manufacturing

Injection Molding · 3D Printing

CNC Machining

Regulatory

ISO 9001 · ISO 13485

ISO 14971 · 21 CFR 801

EDUCATION

University of Vermont
Burlington, VT
2015 – 2019
B.S. Mechanical Engineering

CERTIFICATIONS

Certified Quality Improvement Associate

American Society for Quality · 2020

WORK EXPERIENCE

Electromechanical Engineer & Quality Manager, Healthy Design Ltd. Co.
Remote · May 2019 – October 2020

- Worked as a System Engineer to design and implement traceable manufacturing processes
- Designed, prototyped, and implemented custom actigraphy monitor for use in patient agitation sensor
- Generated and maintained technical documentation including work instructions, technical drawings, and bill of materials
- Wrote system level testing protocol to validate system function for release in accordance with Design Controls
- Experience with Product Development using a 5-stage phase-gated process

- Sourced and qualified new vendors/suppliers
- Performed root cause analysis during Customer Complaint and CAPA investigation
- Facilitated day-to-day Quality Operations including but not limited to Document Control, Employee Training, and Record and Data Control
- Ensured compliance of company operations, including the Quality Management System, with ISO 13485:2016 and other domestic and international standards

Project and Logistics Manager, Capstone Senior Design
University of Vermont · August 2018 – May 2019

- Oversaw and directed actions of 3-person design team focused on designing and prototyping a video game controller for patients in critical care
- Scheduled design team facility and resource usage via weekly meetings and Gantt charts
- Managed project schedule and device development cycle.

Manufacturing Engineering Intern, Revision Military
Essex, VT · June 2018 – August 2018

- Led project to reintroduce an 8-year-old automatic visual inspection system back into the production line to improve worker efficiency, product quality, and begin process of reducing labor and production costs
- Developed OpenCV based Python program for overlaying multiple inspected images into one for analysis of where defects occur and of which type (scratch, coating run, other)