

Yengkong Sayaovong

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Mechanical Designer

Experienced Mechanical Designer with nearly 5 years of expertise in transformer design, control system integration, and process optimization. Skilled in 3D modeling and drafting using CREO 8.0, with a strong background in collaborating with controls engineers to integrate electrical schematics into mechanical designs. Actively pursuing a Bachelor's in IT to enhance expertise in automation, robotics, and industrial control systems. Seeking to transition into roles that leverage mechanical design and controls experience to drive innovation in industrial automation.

Career Highlights

Mechanical Designer | Prolec-GE Waukesha – Waukesha, WI

10/2020 – Present

- Designed and detailed transformers and drafted nameplates using CREO 8.0, ensuring compliance with industry standards and high precision in all design aspects. Collaborated with controls teams to interpret and incorporate control wiring diagrams into transformer nameplate designs.
- Conducted comprehensive quality checks on transformer designs, identifying and rectifying issues to maintain stringent quality standards.
- Led multiple process optimization initiatives, resulting in a 10% increase in design efficiency and a significant reduction in errors.
- Debugged C++ code for design automation tools, improving the efficiency and accuracy of workflows and reducing time spent on repetitive tasks.
- Trained new hires, developing a structured training program that includes hands-on sessions and written guides to ensure new team members meet performance standards.
- Created and managed an Excel-based project tracker, providing real-time insights into project progress, error rates, and completion timelines, facilitating data-driven decision-making. Developed automated visualizations to analyze error trends over time, utilizing line and pie charts in Excel to support quality control and continuous improvement efforts.
- Led team meetings to discuss ongoing projects, resolve design challenges, and align team members with objectives, fostering a collaborative environment.
- Composed a comprehensive training manual and standardized procedures, enhancing team consistency and reducing onboarding time for new hires.

Education

B.S., Information Technology; Minor in Music | Arizona State University | 2022 – Present

A.S., in Mechanical Design Technology | Milwaukee Area Technical College | 2017 – 2021

Technical Proficiencies

Mechanical Design: CREO 8.0 (5 years), AutoCAD, SolidWorks, Inventor

Controls Collaboration: Proficient in interpreting and integrating control wiring diagrams into mechanical designs

Programming: C++ (debugging for design automation), Python (familiar with process automation), VBA (Excel macros for task automation)

Project Management: Excel-based dashboards for project tracking and reporting

Quality Control: Experienced in conducting inspections, resolving design discrepancies, and implementing corrective actions

References

Max Lindhorst | Mechanical Designer, Prolec-GE

Phone: 414-350-3985

Erik Lee | Pastor, Fox Valley Baptist Church

Phone: 262-290-0095

Ann Schleicher | Former Supervisor, DD Sling & Supply

Phone: 262-242-5501