PHUONG NGUYEN TRAN

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EXPERIENCE

Personal Project - Budget | Data Analysis with Excel | Jan 2024

- Applied advanced Excel functions to categorize and analyze bank data
- Developed tool to summarize expense categories into a single pivot table for efficient financial tracking

Oregon Tool | Excel, SolidWork, Machine Learning

Manufacturing Engineer Intern | June 2023 - Dec 2023, Portland OR

Pan Splitter Modification - CAD/SolidWork

- Led reconstruction and modernization of outdated CAD design, incorporating team feedback and customer insights
- Facilitated design discussions among multi-disciplinary teams to integrate new ideas and enhance functionality. Ensured accuracy through meticulous measurement and validation of CAD files
- Reduced annual scrap costs by $2500, streamlined production with 29 redesigned components, and initiated approval for implementation

Press Conveyor Lifter - Simplicity

- Engineered a versatile leveling system to eliminate part bouncing on conveyor systems, adaptable to various press configurations
- Designed, implemented, and tested leveling systems for each press, ensuring consistent performance across multiple configurations
- Slashed scrap generation by over 85%, saving $1900 annually. Achieved break-even in 3.10 months, optimizing Blanking department operations

Assembly Machine Data - Data Analysis

- Analyzed 30 million data sets to identify and resolve faults affecting assembly processes, enhancing overall production efficiency
- Utilized advanced Excel functions and Pivot tables to quantify fault impacts and enhance root cause analyses
- Improved decision-making with actionable insights, optimizing assembly line productivity and minimizing downtime

CNC Grinder Flood Control - Root Cause Analysis

- Conducted root cause analysis and developed preventive measures for CNC grinder flooding issues
- Employed Fish Bone diagrams and A3 reports to identify control system failures and clogging points
- Applied countermeasure resulted in saving $3000 in labor expenses and 90,000 cutters unground annually

Cutter Grind Changeover - Lean Manufacture

- Optimized changeover process for Cutter Grind machine, reducing downtime by 40%
- Created streamlined procedures and proposed component adjustments to minimize part retrieval time
- Enhanced operational efficiency and minimized disruptions, improving production opportunities and team satisfaction

OPENS Lab - OSU| Soldering, SolidWork

Mechanical Engineer | Jan 2021 - June 2023, Corvallis OR

- Collaborated with 7 students to design and build a fluid flow monitoring device
- Engineered device to be more efficient, cheaper, and covered manufacturing time by 60%
- Tested for no faults and water-leaks without sacrificing manufacturing time

EDUCATION

Oregon State University|Corvallis, US

Graduation expected June 2025

B.S., Mechanical Engineering

B.S., Manufacturing Engineering

Minor in Mathematics

HONOR & AWARDS

CONTINUATION SCHOLARSHIP

OSU | 2023 - 2024

OSU REGIONAL AWARD

OSU | 2020 - 2023

IELTS 7.0 | 2019

OLYMPIC PHYSICS 30/4 | Silver Medal

Ho Chi Minh city, Vietnam|2016

SKILLS

Solid Work, Excel, Root Cause & Data Analysis, Mechanical Design, Correlation & Hypothesis, Process Improvement

LINKS

Oregon Tool Appraisal

https://shorturl.at/ZP5VA

Linkedin

https://linkedin.com/in/boonied

Portfolio

https://phuong25167.github.io/boonied