

MAINTENANCE ENGINEERING CO-OP

Experience

Maintenance Engineering Co-Op , 01/2019 to 11/2019

Company Name – City , State

- Functioned as facility Computerized Maintenance Management System (CMMS) technical expert, and liaison to Global IT and Maximo Support team.
- Managed Maximo workflows, assisted in identification and resolving Maximo 7.6 related issues.
- Innovated new documentation techniques for efficient flow of Maint Work Orders for future reference and accountability.
- Identified few key tools missing in site's Maximo.
- Got it enabled from HQ IT team for 1000+ AAM Global Maximo users.
- Expanded existing facility Maximo user count by 50%.
- Provided problem solving support and training to Maximo users.
- Created, assigned and scheduled Preventive Maintenance (PM) and Predictive Maintenance (PD) plans.
- Perform Process Failure Mode and Effects Analysis (PFMEA) by studying downtime trends using Maximo and SharePoint.
- Champion for Spindle Vibration Analysis program.
- Train tradesmen to gather Vibe data, analyse trends & recommend repairs.
- Implement 5S Methodology in toolroom.
- Performed GP-12 quality inspection in Production Part Approval Process (PPAP).
- Investigate part failures by studying Electrical, Hydraulic and Pneumatic equipment prints using AutoCAD.
- Plan and coordinate Maint operations with Production team to minimize equipment downtime and maximize production.
- Identify new, damaged or obsolete parts in store using ORACLE and coordinate with Purchasing Dept to buy it in.

Student Team Leader , 05/2018 to 12/2018

Company Name

- Raised \$5,000+ for various student scholarship funds under WMU.
- Coached fundraising techniques to 15 Student Ambassadors.

Mechanical Intern , 01/2016 to 02/2016

Company Name

- Fixed design errors considering design parameters of vehicle transmission unit using SolidWorks.
- Registered data for processes such as Failure Modes and Effects Analysis (FMEA) and Bill of Materials (BOM).
- Assisted Continuous Improvement team in reviewing and refining processes to make additional improvements.
- Generated In-depth Root Cause Analysis reports in relation to problems and errors reported by customers.

Manufacturing Intern , 01/2015 to 02/2015

Company Name – City

- Utilised GD&T and Unigraphics NX to identify and fix measurement and design errors.
- Analysed models using ANSYS.
- Implemented Lean Manufacturing and reduced waste by 5%.
- Perform geometric and algebraic calculations on CNC machines.

Work History

Maintenance Engineering Co-Op , 01/2019 to 11/2019

Company Name – City , State

- Functioned as facility Computerized Maintenance Management System (CMMS) technical expert, and liaison to Global IT and Maximo Support team.
- Managed Maximo workflows, assisted in identification and resolving Maximo 7.6 related issues.
- Innovated new documentation techniques for efficient flow of Maint Work Orders for future reference and accountability.
- Identified few key tools missing in site's Maximo.
- Got it enabled from HQ IT team for 1000+ AAM Global Maximo users.
- Expanded existing facility Maximo user count by 50%.
- Provided problem solving support and training to Maximo users.
- Created, assigned and scheduled Preventive Maintenance (PM) and Predictive Maintenance (PD) plans.
- Perform Process Failure Mode and Effects Analysis (PFMEA) by studying downtime trends using Maximo and SharePoint.
- Champion for Spindle Vibration Analysis program.
- Train tradesmen to gather Vibe data, analyse trends & recommend repairs.
- Implement 5S Methodology in toolroom.
- Performed GP-12 quality inspection in Production Part Approval Process (PPAP).
- Investigate part failures by studying Electrical, Hydraulic and Pneumatic equipment prints using AutoCAD.
- Plan and coordinate Maint operations with Production team to minimize equipment downtime and maximize production.
- Identify new, damaged or obsolete parts in store using ORACLE and coordinate with Purchasing Dept to buy it in.

Mechanical Intern , 01/2016 to 02/2016

Company Name

- Fixed design errors considering design parameters of vehicle transmission unit using SolidWorks.
- Registered data for processes such as Failure Modes and Effects Analysis (FMEA) and Bill of Materials (BOM).
- Assisted Continuous Improvement team in reviewing and refining processes to make additional improvements.
- Generated In-depth Root Cause Analysis reports in relation to problems and errors reported by customers.

Manufacturing Intern , 01/2015 to 02/2015

Company Name – City

- Utilised GD&T and Unigraphics NX to identify and fix measurement and design errors.
- Analysed models using ANSYS.
- Implemented Lean Manufacturing and reduced waste by 5%.
- Perform geometric and algebraic calculations on CNC machines.

Student Team Leader , 05/2018 to 12/2018

Company Name

- Raised \$5,000+ for various student scholarship funds under WMU.
- Coached fundraising techniques to 15 Student Ambassadors.

Education

Master of Science : Mechanical Engineering , 12/2019

Western Michigan University - City , State

- GPA: 3.54/4,
- Product Design: Supervised team of 6 people in building working Catapult model. Conducted statistical analysis like Design of Experiments (DOE) and Statistical Process Control (SPC) using JMP software. Developed Product Design Specification (PDS), Quality Function Deployment (QFD), Gantt Chart, Pugh Matrix, and Failure Modes and Effects Analysis (FMEA)

Bachelor of Engineering : Automotive Engineering , 06/2017

Dayananda Sagar College of Engineering, Visvesvaraya Technological University - City

GPA: 3.4/4

Summary

Mechanical Engineering graduate seeking opportunity that will utilize my skills in Mechanical Design, Manufacturing Processes, DOE and Project Management. Skilled in CAD, GD&T, Analysis & Simulation, Quality Control, Machine Processing & Maintenance

Highlights

- AutoCAD, Statistical analysis
- CAD, Transmission
- Catia, Unigraphics
- CNC
- Continuous Improvement
- Data Analysis
- Design of
- EExperiments (DOE)
- Documentation
- Fundraising
- Funds
- IBM
- Inspection
- Lean Manufacturing
- Machining
- Materials
- MathCAD
- MATLAB
- Microsoft Office Suite
- Microsoft Project
- SharePoint
- Minitab
- ORACLE
- Problem solving
- Processes
- Product Design
- Project Management
- Purchasing
- Finite Element Analysis (FEA),
- Software/Tools: IBM Maximo 7.6, SharePoint, Oracle, 3-D
- Design for Manufacturability (DFM), Lean Manufacturing, Computer-Aided Design (CAD), Geometric Dimensioning
- Process Failure Mode and Effects Analysis (PFMEA), CNC and Tolerancing (GD&T), AutoCAD, NX Unigraphics, Catia
- Machining, Project Management, Design of Exp (DOE), V5, SolidWorks, ANSYS, MathCAD, MATLAB, Minitab,
- Statistical Data Analysis, Quality Function Deployment, 5S JMP, Pam-Stamp, Microsoft Project, Microsoft Office Suite
- 3-D, SPC
- DDesign, Specification
- ANSYS, Statistical Process Control

- Quality
- Repairs
- SolidWorks

Skills

- Finite Element Analysis (FEA),
- Software/Tools: IBM Maximo 7.6, SharePoint, Oracle, 3-D
- Design for Manufacturability (DFM), Lean Manufacturing, Computer-Aided Design (CAD), Geometric Dimensioning
- Process Failure Mode and Effects Analysis (PFMEA), CNC and Tolerancing (GD&T), AutoCAD, NX Unigraphics, Catia
- Machining, Project Management, Design of Exp (DOE), V5, SolidWorks, ANSYS, MathCAD, MATLAB, Minitab,
- Statistical Data Analysis, Quality Function Deployment, 5S JMP, Pam-Stamp, Microsoft Project, Microsoft Office Suite,
- 3-D
- Design, ANSYS, AutoCAD, CAD, Catia, CNC, Continuous Improvement, Data Analysis, Design of
- Experiments (DOE), documentation, fundraising, funds, IBM, inspection, Lean Manufacturing, Machining, Materials, MathCAD, MATLAB, Microsoft Office Suite, Microsoft Project, SharePoint, Minitab, ORACLE, problem solving, processes, Product Design, Project Management, Purchasing, Quality, repairs, SolidWorks, SPC, Specification, Statistical Process Control, statistical analysis, transmission, Unigraphics