

Bradley S. McMillan

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EDUCATION

Bachelor of Science - Mechanical Engineering
Minor - Metallurgical Engineering
Missouri University of Science and Technology

December 2010

EXPERIENCE

Vibrations Analyst
SKF USA Inc.

Panama City, FL
July 2011 - Dec 2011

- Obtained and analyzed vibration data to monitor equipment performance
- Assisted in development of equipment timeframes to failure
- Compared equipment trends for possible signs of defects
- Updated the Equipment Repair Request book and the monthly vibrations averages for all Paper Mill departments

Machinist

A-Z Manufacturing & Sales, Inc.

Independence, MO
May 2008 – Aug 2008

- Worked with an array of machinery performing:
Laser cutting, punch, shear and brake processes
- Performed quality checks on machined parts

ADDITIONAL EXPERIENCE

Soccer Referee, Concession and Grounds Keeper
Blue Valley Activity Center

Independence, MO
Sept 1999 – May 2008

- Refereed soccer games for children pre-school through ninth grade
- Stocked and sold goods in the concession stand
- Maintained the park fields at Family Life Center

RELEVANT COURSE WORK

Analysis and Synthesis in Engineering Design

- Evaluated hydraulic leakage due to excessive temperatures
- Developed feasible solutions in team setting

Manufacturing

- Studied manufacturing processes such as:
Forging, Rolling, Extrusion, Drawing, Turning, Lathes, Milling, Drilling

DATA COLLECTION

Collected vibration data on equipment throughout a paper mill

- Acquired data using an accelerometer and a CSI 2130 data analyzer
- Uploaded data to AMS Machinery Health Manager program
- AMS program displayed data and conclusions could be developed pertaining to the functionality and the predicted time to failure of the equipment

DATA CONCLUSIONS

Analyzed vibration data to determine defects in equipment

- Presented recommended action to be taken to corresponding area maintenance supervisor, predictive maintenance supervisor and the reliability engineer
- Recorded recommended action, detected defect and date reported in the Equipment Repair Request (ERR) book

COMPUTER SKILLS

Proficient with learning new programs

- Able to learn basic steps needed to run AMS program within one week
- Familiar with basic engineering programs such as: LabVIEW, PLC, AutoCad and NX
- Experienced with writing reports and documents in Microsoft Word, Microsoft Excel and Microsoft Power Point

REPORTS

Produced many reports and presentations

- Developed formal reports and memos for projects and assignments for college coursework
- Created presentations to demonstrate project's purpose and conclusions drawn

TASK MANAGEMENT

Learned how to balance responsibilities to complete work efficiently

- Prioritized and adjusted data collection routes so they were completed swiftly
- While working at AZ Manufacturing, learned machine operation quickly in order to produce more products

TEAM ENVIRONMENT

Worked on many team projects and experiments

- Worked closely with other vibration analysis and reliability engineers
- Collaborated with SKF colleague to make final assessment on defects in equipment