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| Ash Afshar | | | | | | | | |
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| <https://www.linkedin.com/in/ash-afshar/> | | | | | | <https://github.com/ArshA03> | | |
| SUMMARY | | | | | | | | |
| I bring skills in equipment planning, and preventive maintenance, along with a strong background in mechanical and electrical troubleshooting. My experience in maintenance scheduling, and reliability analysis, makes me well-suited for supporting construction and mining operations. I am adaptable, detail-oriented, and committed to ensuring equipment reliability and operational efficiency, making me a strong candidate for this Equipment Planner position at Kiewit. | | | | | | | | |
| SKILLS | | | | | | | | |
| * **Technical Skills:** Equipment Planning, Mechanical and Electrical Troubleshooting, Equipment Maintenance, Preventive Maintenance, Condition Monitoring, ISO Standards, SAP, Reliability Analysis, Failure Analysis, Heavy Equipment Operations, Risk Assessment * **Operational Skills:** Maintenance Scheduling, Inventory Management, Procurement and Material Handling, Purchase Order Management, Health and Safety Compliance, Project Support, Documentation, Report Generation, Inspection and Quality Assurance * **Software:** Microsoft Office Suite (Word, Excel, PowerPoint), Python, SQL, CAD (SolidWorks), ERP Systems, DAQ * **Soft Skills:** Strong Communication, Team Collaboration, Adaptability, Problem Solving, Attention to Detail, Independent Work, Time Management, Strong Work Ethic | | | | | | | | |
| WORK EXPERIENCES | | | | | | | | |
| Graduate Assistant, | University of Victoria, Victoria, BC | | | | | | 2023 - 2024 | |
| * Planned and scheduled equipment maintenance for FDM 3D printers, reducing equipment downtime by 15% through regular and preventive maintenance programs. * Generated reliability analysis reports to document maintenance actions, enhancing transparency and contributing to improved equipment reliability. * Managed inventory of lab equipment and special tools, optimizing material handling and reducing material loss by 10%. * Collaborated with stakeholders to ensure project completion, adhering to safety standards and enhancing communication across academic teams. | | | | | | | | |
| Scientific Lab Assistant, | | *University of Victoria, Victoria, BC* | | | | | | 2022 - 2023 |
| * Implemented a maintenance documentation system using Python, Excel and SQL, streamlining maintenance scheduling and achieving a 70% improvement in workflow efficiency. * Coordinated equipment inspections with academic staff, ensuring quality assurance and compliance with ISO 9001 standards. * Reviewed and updated maintenance procedures for lab equipment, ensuring effective preventative maintenance and reducing downtime. * Conducted inspections of new equipment installations, enhancing mechanical reliability and compliance with safety standards. * Supported lab expansion projects, managing tools and equipment, and collaborating with cross-functional teams to enhance laboratory capabilities. | | | | | | | | |
| Mechanical Engineer (Intern), | | | | *PSA Valve Co., Tehran, Iran* | | | | 2021 - 2022 |
| * Developed and implemented preventative maintenance plans for rotary machinery, decreasing unplanned downtime by 20% and ensuring consistent equipment utilization. * Performed inspections and condition monitoring using diagnostic tools, enhancing equipment reliability and reducing failure rates. * Assisted in logistics management for subcontractor activities, ensuring efficient material handling and compliance with industry standards. * Utilized ERP systems to track maintenance schedules and resource allocation, optimizing fleet management and minimizing downtime. * Provided technical guidance to junior interns, fostering skills in maintenance planning, work order management, and equipment servicing. | | | | | | | | |
| PROJECTS | | | | | | | | |
| Mechanical System Revamp, | | | *BIL, University of Victoria, Victoria, BC* | | | | | 2023 - 2024 |
| * Revamped a material testing system by integrating advanced sensors, actuators, and microcontrollers, supporting equipment reliability for research applications. * Developed a Data Acquisition (DAQ) system with a custom GUI using Python and C++, providing precise control and enhancing preventative maintenance programs. * Created detailed technical documentation and user manuals, ensuring health and safety compliance and consistent training for lab staff. * Analyzed reliability and failure data, implementing improvements that enhanced operational efficiency by 30%. * Troubleshot and resolved system issues, ensuring equipment met performance objectives and maintained reliability. | | | | | | | | |
| Bachelor's Capstone Project | | | | | | | | 2020 - 2021 |
| * Engineered an automated condition monitoring system for rotating equipment using Python-based algorithms, improving preventative maintenance and reducing failures by 25% in controlled environment. * Conducted root cause analysis on equipment failures using statistical techniques such as FFT, developing effective maintenance solutions. * Designed and implemented maintenance strategies for heavy machinery, optimizing equipment utilization and reducing downtime. * Managed project deliverables, including technical documentation and equipment testing protocols, ensuring alignment with industry standards. * Collaborated with a multi-disciplinary team, demonstrating skills in project management, stakeholder engagement, and effective communication. | | | | | | | | |
| EDUCATION | | | | | | | | |
| Bachelor of Science in Mechanical Engineering | | | | | | | | Mar 2021 |
| IKIU, Qazvin, Iran | | | | | | | | |
| VOLUNTEER EXPERIENCE | | | | | | | | |
| Health Equipment Client Services Volunteer, | | | | | *Canadian Red Cross, Victoria, BC* | | | 2023 - Present |
| * Enhanced patient care by providing dedicated client service and managing health equipment, demonstrating a consultative approach to service delivery. * Managed logistics and maintained meticulous records of health equipment, ensuring accurate tracking and availability, supporting efficient territory management. * Provided technical guidance and education to clients on the use of health equipment, enhancing their understanding and utilization. | | | | | | | | |
| REFERENCES | | | | | | | | |
| Available upon request | | | | | | | | |