Zachary Nicholas

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Professional Summary

Versatile and detail-oriented mechanic and maintenance technician with extensive experience in diagnostics, preventative maintenance, and system optimization across mechanical, electrical, and hydraulic platforms. Proven ability to troubleshoot complex issues, streamline workflows, and ensure operational reliability under pressure. Background includes U.S. Marine Corps service, hands-on consulting work, and continuous professional development in system efficiency, automation, and equipment lifecycle support.

Core Competencies

Mechanical, Electrical & Hydraulic Troubleshooting | Preventative & Corrective Maintenance | System Efficiency & Technical Diagnostics | Inventory Management & Documentation Control | Workflow Optimization & Team Training | Maintenance Reporting & Compliance Tracking

Experience

Independent IT Consultant | Self Employed   **Jan 2020 - Present**

- Advised clients on maintenance strategies, equipment health, and reliability improvements.
- Created automation scripts (Python, PowerShell, Bash) to assist in task scheduling and system data collection for tracking usage and wear.
- Consulted on mechanical system setups and infrastructure upgrades, enhancing performance and equipment availability.

Heavy Equipment Mechanic | United States Marine Corps   **May 2017 - Aug 2021**

- Diagnosed and repaired mechanical, hydraulic, and electrical failures in tactical vehicles and support systems.

- Conducted detailed system inspections and preventative maintenance to ensure equipment met mission-critical standards.

- Managed parts inventory and technical documentation, including the distribution and tracking of manuals.

- Collaborated with specialists across mechanical, electrical, and water systems to execute complex maintenance operations.

- Trained junior personnel in safe and standardized troubleshooting procedures, supporting readiness and skill development.

- Developed and refined SOPs to increase maintenance workflow efficiency and asset uptime.

Education

B.S. in Computer Science   **Oct 2021 – Dec 2024**

Southern New Hampshire University | GPA: 3.797