

# Zachary Nicholas

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## Professional Summary

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Dedicated maintenance professional specializing in mechanical troubleshooting, electrical diagnostics, and system optimization. Experienced in diagnosing hydraulic, pneumatic, and mechanical systems, applying structured problem-solving techniques to maximize efficiency and minimize downtime. Skilled in technical reporting, workflow streamlining, inventory management, and operational analysis, ensuring smooth functionality across complex equipment environments. Extensive cross-training in multiple disciplines, reinforcing adaptability and hands-on expertise across electrical systems, refrigeration, automotive maintenance, water support, and structured operational problem-solving.

## Experience

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### Independent IT Consultant | Self Employed

**Jan 2020 – Present**

- Provided technical troubleshooting and diagnostics, helping clients resolve system inefficiencies and improve functionality.
- Developed automation scripts (Python, PowerShell, Bash) to support system optimization and streamline basic workflows.
- Assisted in software configuration and infrastructure optimization, enhancing reliability for client systems.
- Advised on efficiency-driven maintenance strategies, ensuring systems remained stable and operational.
- Conducted structured evaluations, identifying issues and recommending solutions to enhance system performance.

### Heavy Equipment Mechanic | United States Marine Corps

**May 2017- Aug 2021**

- Conducted mechanical, hydraulic, and electrical troubleshooting, optimizing performance and minimizing downtime across mission-critical assets.
- Managed inventory tracking (GCSS-MC, Excel) for logistics control, parts requisitioning, and structured equipment allocation.
- Led technical documentation efforts, reinforcing structured maintenance workflows and operational reporting accuracy.
- Supervised environmental compliance, ensuring regulated hazardous material handling (MSDS tracking, fuel disposal, safety enforcement).
- Provided structured readiness reports to unit leadership, supporting informed decision-making through data-driven equipment assessments.
- Worked alongside specialists across multiple MOS disciplines, gaining hands-on experience in:
  - Electrical Systems (MOS 1141, 1142) – Assisted with power regulation, circuit diagnostics, and structured wiring solutions during collaborative maintenance tasks.

- Refrigeration & HVAC (MOS 1161) – Supported cooling system maintenance and environmental control operations, reinforcing technical adaptability.
- Automotive & Water Support (MOS 1171, 3521, 3531) – Engaged in vehicle diagnostics and fluid-powered system troubleshooting, gaining direct exposure through operational assignments.
- Mentored junior mechanics, enhancing technical expertise, operational coordination, and compliance-driven maintenance strategies.

## **Skills & abilities**

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**Mechanical, Electrical, & Hydraulic Systems** – Hands-on troubleshooting, diagnostics, and structured problem-solving.

**Technical Troubleshooting & Workflow Optimization** – Identifying inefficiencies and improving operational efficiency.

**Inventory & Documentation Management** – GCSS-MC tracking, compliance reporting, and structured maintenance workflows.

**Equipment Calibration & Safety Protocols** – Ensuring regulatory adherence and system precision through technical oversight.

**Team Training & Operational Readiness** – Leading structured skill development, mentoring personnel, and optimizing maintenance execution.

## **Education**

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**B.S. in Computer Science**

**Oct 2021 - Dec 2024**

Southern New Hampshire University | GPA: 3.797

**References Available Upon Request**