Daniel C. Sparks

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Quantum Forge 3D — http://quantumforge3d.com/

Professional Summary

Highly adaptable technical professional with hands-on experience spanning industrial maintenance, electrical systems, additive manufacturing, logistics, network infrastructure, fabrication, automation, and entrepreneurship. Proven ability to rapidly learn complex systems, optimize workflows, and develop custom technical solutions for industrial and consumer applications. Experienced in both physically demanding environments and high-detail technical operations requiring precision, troubleshooting, and independent initiative.

Core Skills

Industrial & Technical: Industrial Maintenance, Electrical Support, PLC Troubleshooting, Conduit Fabrication, LOTO Procedures, Blueprint Interpretation, Hardware Diagnostics, Precision Soldering, Network Infrastructure

Fabrication & Manufacturing: 3D Printing (FDM & Resin), CAD Modeling, Blender 3D, Rapid Prototyping, Plasma Cutting, Product Design, Custom Tooling, QA & Calibration

Logistics & Operations: Forklift Operation, Warehouse Operations, Shipping & Receiving, Inventory Control, Route Optimization, Freight Logistics, Material Handling

Software & Technology: Blender, Photoshop, Microsoft Office, Google Workspace, BetaFlight, AI-Assisted Development Tools, Replit, Website Development

Professional Experience

Founder & Owner — Quantum Forge 3D

Chehalis, WA • December 2022 – Present

• Founded and operate a custom additive manufacturing and rapid prototyping business serving industrial, commercial, automotive, and consumer applications.
• Designed and launched a fully operational business website, customer intake platform, and workflow system for quotes, order management, and communication.
• Provide outsourced manufacturing and print-on-demand services for custom fabrication solutions.
• Manufacture custom tooling, ergonomic mounts, appliance components, automotive parts, and replacement hardware.
• Perform complete in-house diagnostics, repair, tuning, and maintenance of advanced 3D printing systems.
• Utilize CAD, Blender, and scan-assisted workflows for rapid prototyping and reverse engineering.
• Leverage AI-assisted development tools for workflow optimization, design validation, and operational planning.

Delivery Associate — R2T2 Logistics

Washington State • November 2025 – Present

• Perform high-volume package delivery operations in fast-paced residential and commercial environments.
• Utilize route optimization strategies to maintain delivery efficiency and time management.
• Handle package scanning, verification, loading organization, and delivery confirmation systems.
• Maintain strong customer service and adaptability under changing delivery conditions.

Maintenance Technician — Hardel Mutual Plywood Corp

Chehalis, WA • August 2025 – September 2025

• Supported industrial electrical infrastructure upgrades involving 400V-277V and 120V systems.
• Assisted with conduit installation, fabrication, and wire pulling for major facility upgrades.
• Troubleshot PLC and low-voltage machine control systems.
• Interpreted schematics, P&IDs;, and mechanical diagrams for diagnostics and repairs.
• Operated heavy equipment including scissor lifts, forklifts, and boom lifts.

Mining Technician & Infrastructure Specialist — Elite Mining Inc.

Chehalis, WA • July 2020 – May 2023

• Installed and maintained industrial electrical systems ranging from 120V to 480V.
• Managed mining hardware diagnostics, repairs, firmware management, and performance optimization.
• Performed precision soldering and hardware rework on server components.
• Designed and installed network infrastructure including switches, VPN systems, and long-distance cable runs.
• Built and maintained liquid immersion cooling infrastructure.

Projects & Technical Development

Full Business Infrastructure Development: Designed and deployed a complete online platform for customer requests, quotes, order handling, branding, and production workflow management for Quantum Forge 3D.

AI-Assisted Software & Automation Development: Utilize AI-assisted development environments including Codex and Replit for application development, automation tooling, workflow systems, and operational planning.

Home Inventory Database System: Developing a searchable inventory platform with image-based organization and location tracking for physical storage management.

FPV Drone Systems: Building, repairing, tuning, and flying custom FPV drones with extensive experience in electronics repair, soldering, BetaFlight tuning, and analog/digital FPV systems.

Education

GED — Gravity Learning Center
2020

Additional Strengths

Exceptional adaptability • Strong systems intuition • Independent troubleshooting • Entrepreneurial mindset • Technical creativity • Professional communication