

PROFESSIONAL EXECUTIVE SUMMARY

High-competence, direct-execution **Systems Integration & Diagnostic Specialist** combining 10+ years of enterprise IT infrastructure experience, mobile QA hardware/software validation, and military emergency triage diagnostic discipline (U.S. Army Veteran). Proven polymath track record bridging the gap between component-level micro-electronics, embedded software, CAD prototyping, high-density hardware assembly, and critical enterprise compliance environments (HIPAA). Operates with a relentless, plain-language ("Barney Style") direct execution model to identify root-cause system failures under pressure, rapid-prototype hardware/software solutions, and ensure maximum uptime across complex technical environments.

CORE COMPETENCIES & TECHNICAL MATRIX

Hardware Prototyping & Electronics: Component-Level Micro-Solder/Repair, Micro-Harness Routing, Ribbon Cable Handling, PCB Diagnostics, 12V DC Power Distribution, Surface-Mount Tools, SLA/FDM Additive Manufacturing, CAD Enclosure Modification, FEP & LCD Masking Repair.

Testing, QA & Automation: Manual Testing (Mobile, Web, Hardware), Device Validation, Test Plan Strategy, Python Automation, AI Response Protocols (ILL Protocol v1), SQL Data Extraction, JavaScript, Java (Project-Level), API Validation (Reddit API Reader).

Systems Integration & Telemetry: High-Density PC Chassis Integration, Dual-Chamber Thermal Management, Real-Time LCD Telemetry Displays, Open-Source Software (OSS) Edge Deployment, Infrastructure Monitoring & Uptime Optimization.

Compliance & Physical Mechanical: HIPAA / EHR Systems (NextGen PM Administration), Structural Subfloor & Mechanical Carpentry, Plumbing/Environmental Remediation, Closed-Loop Biological Control Systems, Military Medical Triage.

PROFESSIONAL WORK EXPERIENCE

- Support Engineer (Contract)**
S&P Global | Plano, TX | Apr 2024 – Present

 - Execute proactive system monitoring and infrastructure stability workflows, ensuring 99.9%+ enterprise uptime across critical financial platforms.
 - Enforce secure infrastructure planning, compliance alignment, and cross-team diagnostic troubleshooting to isolate hardware/software bottlenecks.
- Technical Support Engineer**
MHMR of Tarrant County | Fort Worth, TX | Nov 2023 – Jan 2024

 - Delivered high-tier IT engineering support across healthcare hardware/software systems, reducing system downtime and maintaining compliance.
 - Led root-cause diagnostic issue resolution and infrastructure cleanup, securing patient data integrity and system reliability across critical medical facilities.
- IT Support Specialist**
USPI (United Surgical Partners International) | Addison, TX | Aug 2021 – Dec 2022

 - Maintained HIPAA-compliant IT systems and physical hardware infrastructure for 150+ medical staff across multiple surgical center environments.
 - Administered credentialing databases, secured endpoint access, and resolved complex EHR-related system issues and custom template configurations.
- Help Desk Analyst & NextGen PM Administrator**
Privia Medical Group | Arlington, TX | Jun 2018 – Aug 2021

 - Served as NextGen PM System Administrator managing user access, provider configurations, and scheduling templates across 25+ medical clinics.
 - Resolved 300+ technical tickets monthly spanning EHR software, physical hardware endpoints, network connectivity, and compliance validation.
 - Engineered custom Excel automations and SQL data queries, significantly reducing data processing errors and improving clinic administrative throughput.
- Combat Specialist / Triage Diagnostic Medic (68W)**

United States Army | 2007 – 2010

- Executed critical medical triage diagnostics, field stabilization, and emergency healthcare procedures under extreme stress in fluid tactical environments.
- Standardized plain-language diagnostic communication ("Barney Style"), training international personnel on compliance, rapid triage, and system procedures.
- Awarded the **Army Commendation Medal (ARCOM)** for exemplary diagnostic execution and meritorious service.

TECHNICAL PROOF-OF-WORK & PROTOTYPING PROJECTS

Lead Technical Prototyper & Systems Integrator

DaTechDad Labs (datechdad.com) | 2021 – Present

- **Precision Hardware Repair & Micro-Electronics:** Performed complete teardowns, board-level micro-repairs, and shell swaps on precision input devices (Xbox Elite Series 2); managed micro-harness routing and sub-millimeter tolerances on delicate PCB interconnects.
- **Additive Manufacturing Hardware Engineering:** Diagnosed and restored SLA additive manufacturing hardware (Elegoo Saturn LCD Matrix), executing precision swapping of monochrome LCD masking arrays, optical alignment, and FEP tank membrane re-tensioning.
- **Custom CAD Enclosures & Embedded Power Integration:** Engineered internal wire channels in CAD resin models, embedding flush 12V DC power jacks into structural walls while managing thermal expansion and resin shrinkage tolerances.
- **High-Density System Integration & Telemetry:** Migrated open-bench test rigs to dual-chamber chassis (Hyte) with real-time secondary LCD telemetry displays; optimized thermal dynamic routing to maintain peak operational stability under heavy compute loads.
- **Physical Fabrication & Field Remediation:** Built structural double doors with pocket-hole joinery; executed full subfloor remediation down to bare joists (demolition, joist sistering, plumbing re-routing, and load integrity verification).
- **Closed-Loop Biological Controls:** Engineered and maintained closed-loop environmental aquatic control systems, designing dynamic chemical feedback loops and biological filtration protocols.

ILL Protocol v1 (AI Response Protocol Project)

Independent Developer ([GitHub: github.com/DaTechDad](https://github.com/DaTechDad)) | Jul 2025 – Present

- Architected and published an AI-driven image response protocol using Python, demonstrating advanced automation, context processing, and complete technical system documentation.

EDUCATION & CERTIFICATIONS

- **Google Data Analytics Professional Certificate:** Merit America (2023) — Focus on SQL, Spreadsheet Automation, Dashboarding & Data Analysis.
- **QA & Software Engineering Focus:** Mobile API Testing (Reddit Reader), Automation Tools (Selenium, Appium, JIRA, Confluence, Postman).