

Nolan Milleson

Tomball, TX · nomilli79@gmail.com · nolanmilleson.com

Work Experience

Electrical/Hardware Engineer II

November 2024 – Current

Hewlett Packard Enterprise (HPE) – Spring, TX

- Supported and enhanced post-release functionality for Edgeline and HPC (High Performance Compute) platforms; implemented feature updates, option additions, and bug fixes
- Diagnosed hardware and software failures and provided Root Cause Analyses, identifying systemic defects and documenting findings and details on Confluence and Jira
- Led cross-functional remediation of executive escalations, communicating status to stakeholders and driving to root cause and through fix implementation.
- Mentored and trained fellow engineers on troubleshooting procedures, product architecture, and team-specific processes; especially in SME areas of I2C and CPLD
- Submitted a patent application and contributed to innovation in server hardware design in company processes

Electrical Engineer II

January 2024 – November 2024

Metrix Instrument Co. – Houston, TX

- Fixed firmware bugs and implemented new algorithms in STM microcontroller
- Modified C# program for automated test suite of finalized product to improve functionality
- Redesigned legacy equipment programmer around modern Arduino-based microcontroller
- Rewrote BASIC firmware into non-blocking C/C++ to work with Arduino
- Supported production of vibration sensors & industrial equipment in an ISO-9001 environment
- Created new PCB in Altium based on old schematic, finding replacements and creating new Altium parts for all parts in design
- Analyzed product lifecycle for parts in older production designs using SiliconExpert
- Built Altium templates and OneNote structure for entire engineering team

Electrical Design Engineer

February 2021 – January 2024

Invocon, Inc. – Shenandoah, TX

- Led redesign of high-current pyrotechnic controller to improve performance and accuracy
- Managed build and testing of pyro controller system for LEO (Low-Earth Orbit) applications
- Diagnosed problems and repaired hardware destined for the International Space Station
- Designed rocket control and telemetry system for company hardware demonstration
- Interfaced with suppliers for mechanical and electronic parts of a new hardware build
- Created new and modified established test plans for testing flight-ready hardware
- Reviewed PCAs (Printed Circuit Assembly) in Altium Designer for issue root cause analysis
- Selected parts and built BOMs (Bills of Material) for custom cables and test equipment
- Provided field support and installed impact detection system

Education

Kansas State University, Manhattan, Kansas

Graduated: December 2020

Bachelor of Science in **Electrical Engineering**

GPA: 3.851

Electronics & Communications emphasis

Minor in **Business**