

Clay Styer

Woodway, TX

-Email me on Indeed: <http://www.indeed.com/r/Clay-Styer/d1c0eeaa8f19b987>

Experienced professional ready to make an impact in engineering. I have proven design experience, excellent interpersonal skills, & thrive in a team environment or independently. I am a fast learner and can learn a new role quickly and become effective within weeks.

Work Experience

Data & Controls Team Lead

Space Exploration Technologies - McGregor, TX

September 2020 to November 2021

- Engineering Team Leader: Led a team of 7 Electrical Engineers, writing reviews, performance coaching & held weekly one on ones.
Created a new recruiting process to increase candidate retention and hired two engineers in 6 months, 50% improvement on time to hire.
- Flight & Ground Harness Outsourcing Contract: ~ \$1M annual value, developed vendor managed inventory contract, 4-week harnessing delivery requirements.
- Avionics Testing Program: Avionics engine controller testing, 45-89 GRMS Sine over Random profile. Successfully changed connector design to survive the high vibration booster environment. Current Raptor Engine Controller.
- Rocket Engine Factory Automation: Designed an automated PLC conveyance system for 6000 lb rocket engines in a high volume manufacturing plant.
- PCBA Design: Designed, procured, & tested a 32 Ch. active filter PCB for NI PXI systems in 3 weeks, utilized inline with engine test stand DAQ channels.
- Vertical Test Stand Controls Design: Coordinated teams for the design, construction, & commissioning of a 300 Ton capable, 2 engine vertical test stand. 1500 Channel NI PXI Data Acquisition System. Record 5 month design & construction achieved.
- Engine Test Stand Anomaly Recovery: Created & Implemented a \$300k rapid stocking plan to ensure material availability for recovery efforts to continue testing 3-5 days post anomaly.
- Travel: Quarterly travel to launch sites & SpaceX headquarters to support projects.

Principal Engineer

Harman/Samsung International - Richardson, TX

June 2018 to August 2020

- Team & Project Management Experience: Strong Member of a world-class research team creating new power electronic designs for amplifier applications in the professional audio market space. Led multiple amplifier project teams.
- Design Experience: Class D audio amplifiers, Dante networked audio, FPGA's, Analog Devices Sharc DSPs, microprocessors, & Isolated digital power supplies. High Power, High fidelity, amplifier design from 500W-4kW per channel, 40V-140V direct applications, w/extremely low THD & GAN technology.
- Test Expertise: Off-line power supplies, EMI filters, Ethernet PHY/Switches, Resonant power converters, Multi-Phase Boost PFC converters, & Class-D Audio Amplifiers.

● Travel: Quarterly travel to Northridge, CA acoustics facility, Semi-Monthly travel to South Asia to aid in product manufacturing issues and NPI.

Power Engineer

Lennox International - Carrollton, TX

January 2015 to June 2018

- Team Leadership & Project Management Experience: Presented to the CTO quarterly, Controls Vice President bi-weekly, and Direct Management weekly. Created & Managed supplier relationships for all inverter programs.
- Orchestrated a \$50 Million 10-year cost savings variable speed road map.
- Developed a state of the art power electronics lab consisting of programmable loads, programmable grid simulators, AC/DC sources, and Teledyne LeCroy Oscilloscopes.
- Design Experience: Residential & Commercial motor drive applications from 500W-10kW.
- Designed & tested a 6.6KW Three Phase-Interleaved Converter with Power Factor Correction achieving 98% efficiency.
- Created a 6.6KW microprocessor controlled dual motor drive powering a compressor & condenser fan simultaneously.
- Led the Design & Manufacturing team, managed procurement, performed reliability Testing, and DFMEA's.
- Travel: Lennox Manufacturing plants Bi-Annually for NPI, Asia annually for Inverter NPI

Education

Masters of Electrical Engineering in Electrical Engineering

Texas A&M University

December 2014

Bachelors of Electrical Engineering in Electrical Engineering

Texas A&M University

May 2014

Skills

- To add value to a team by listening and providing the best solutions to challenging problems. Strong Team Player, High Volume Manufacturing experience, Production Line Bring-Up, Power Electronics Design & Testing, Rocket Engine Test system development, Contract Manufacturer Development, New Supplier Development, Contract Negotiation, Team Leadership, Budgeting, Project Management, PCBA NPI (high volume manufacturing, design, & testing)
- Programmable logic controllers
- PCB
- FPGA
- Ethernet
- Computer networking
- Soldering
- Electrical engineering

- Avionics
- CAD
- Product development