Todd Renner

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Skills

Design: Hardware engineering, high speed circuit design (40G/10G, 8-32 layer), mixed signal, design for manufacturability, power distribution, serial protocols (PCIe, USB, I2C, UART, SPI, RS-232, RS-422/485)
Tools: Siemens Xpedition Suite (Designer, Layout, Hyperlynx), Vivado Design Suite, MATLAB, LTSpice, Visual Studio, Office Suite (Excel, Word, VISIO, PowerPoint)
Management: DOORS, EVMS, COG/CAM, JIRA

Experience

Specialist (L3) Engineer, L3Harris – Salt Lake City, UT Mar 2025 – Present

- Lead a 7 person hardware engineering team (hardware design, PCB layout) in the rapid development of a SFF modem as the COG/CAM (Cognizant Engineer / Cost Account Manager).
- Effectively managed my time across Qty 3 programs while supporting SIT / debug efforts on another Qty 2 programs for past completed projects.

Senior Associate (L2) Engineer, L3Harris – Salt Lake City, UT Feb 2023 – Mar 2025

- Completed Qty 6 designs across Qty 5 programs (Qty 3 designs 15%+ under budget) consisting of high-speed (40G/10G), mixed signal, OpenVPX / SOSA, fiber optic, and TEMPEST elements.
- Assisted in designing the PDN for a space-qualified mixed signal design following NASA Quad-E standards.
- Developed bids (ROM, BoE) for new backplane designs.

Electrical Engineering Intern, L3Harris – Salt Lake City, UT May 2021 – Feb 2023

- Assisted in the design of a high speed (40G/10G) SOSA 5-slot backplane.
- Effectively took over a critically late project of an engineer who left the company suddenly, bringing the board through bring-up, verification, and SIT.

Electrical Engineering Intern, Marathon Petroleum Corporation – Mandan, ND May 2019 – Aug 2019

- Developed a fully interactive electrical map of the power distribution of a 65 year old oil refinery
- Assisted the PE during installation of a new PDC by reviewing maps, scheduling outages, coordinating with construction teams, and reviewing schedule/scope changes
- Shadowed protection engineers during a FAT of a PDC at the manufacturing center in Texas.

Awards

Wildfire Award Dec 2024

- Recognized as a team member who consistently goes above and beyond his scope of work and inspires others towards completing the task at hand.

Education

University of Utah – MS in Computer Engineering Dec 2022
University of Utah – BS in Electrical & Computer Engineering Dec 2021