

Andrew “Riley” Watson

AV Design Engineer

randomrileywat@yahoo.com | 325-668-8383 | linkedin.com/in/rileywatson | rileywatson.dev

Professional Summary

AV design engineer with ten years of experience across live touring, permanent installation, and AV system design, with a strong foundation in audio, video, and lighting for amphitheaters, houses of worship, broadcast studios, and landmark venues. Currently leading AVL system design efforts at Diversified, with specialized expertise in networked media, AVoIP, and Q-SYS control programming. Equally comfortable behind a live audio console, overseeing the buildout of complex lighting systems, or leading cross-functional teams through every phase of design, installation, and commissioning. AVIXA CTS (Certified Technology Specialist) and ANP (Audiovisual Network Professional) certified.

Key Skills

Q-SYS Design & Programming | Custom UI Design | AVoIP | sACN / Art-Net | Networked AV Infrastructure
Signal Flow | LED Wall Systems and Processors | Live Event Production | Media Servers | RF / Wireless Coordination
Lighting Automation | AutoCAD / Vectorworks | Cable Termination & Splicing | System Commissioning

Professional Experience

Design Engineer II, Diversified - Travel / Remote

September 2024 - Present

Leading AVL systems design across houses of worship, theatres, and broadcast environments with a focus on networked media and AVoIP. Currently leading projects at some of the most prestigious venues in the country.

- Lead system design engineer on the **Washington National Cathedral** audio system: engineered a distributed L-Acoustics Soka column array for maximum clarity and consistency of speech with cabling routed and concealed through hand-cut limestone. All integrated invisibly into a National Historic Landmark and controlled seamlessly via a custom Q-SYS control interface.
- Develop custom Q-SYS plugins and Lua scripts to automate workflows and extend platform capability beyond native functionality, including several custom Lua based audio plugins deployed in production at **Highmark Stadium for the Buffalo Bills**.
- Field commissioning and Q-SYS control programming for over 30 custom interfaces across audio, video, and lighting control at **Mariner's Church** locations throughout southern California.

Design Engineer, Diversified - Travel / Remote

April 2024 - September 2024

Built systems documentation, signal flow diagrams, and AV network designs for client deployments across multiple concurrent projects. Promoted within six months based on technical proficiency and project excellence.

- Supported AVL systems integration and show programming for the launch viewing stage at **Blue Origin Rocket Factory** in Cape Canaveral, Florida, including lighting programming for live launch events, executive presentations, and broadcast-facing productions, as well as custom moving light gobos tailored to the branding of the space.
- Provided onsite technical leadership and staff training for venue operators and production personnel, establishing operational workflows and standards for lighting control, show playback, and live event support in high-profile production environments.
- Designed and deployed custom Q-SYS user interfaces across more than 50 touchscreen controllers spanning 8 interconnected Q-SYS cores at **Transformation Church** in Tulsa, Oklahoma, providing unified control of large-format PA systems, classroom AV environments, digital signage, and facility-wide media infrastructure.
- Engineered scalable control workflows and operator-focused UI layouts to streamline daily productions, volunteer and staff operation, and multi-space event management across complex, campus-wide AVL ecosystems.

(Continued on page 2)

Professional Experience Continued

AVL Installation Specialist / Commissioner, Freelance - Travel / Remote

2020 - 2024

Hands-on field installation and commissioning across a range of high-profile integration projects. Primary focus on full-cycle project delivery from cable termination and rack build through system handoff.

- Commissioned audiovisual systems across houses of worship, corporate, and performance environments, including LED video walls, speaker arrays, amplification, control systems, and lighting distribution.
- Executed structured cable installation including pull, termination, and testing across audio, video, fiber, and network infrastructure with attention to rack dress and long-term serviceability.
- Led installation teams across multiple projects, directing system integration and installation sequencing from complex signal flow diagrams, architectural drawings, and AV coordination documents.

Monitor Engineer - Jimmie Allen, Freelance - Nationwide Tour

July 2021 - June 2022

Mixed monitors full-time for one of country music's breakout artists across a year of touring, covering amphitheatres, theatres, festivals, and rodeos. Extended run as direct support for Brad Paisley on his 2021 nationwide tour.

- Managed all monitor world responsibilities including daily RF coordination, stage setup, and wireless system maintenance across dense multi-channel environments using Shure Axient Digital and PSM900 IEMs.
- Mixed nightly for the artist and band members across hundreds of shows and three console platforms, progressing from the Avid VENUE SC48 to the Yamaha QL5 to the A&H dLive S5000 as the production scaled.
- Stage managed and oversaw daily production buildout across audio, lighting, staging, and LED video wall systems, coordinating touring and local crew and equipment deployment from load-in to load-out.

Lighting Crew Chief - Zach Williams, Freelance - Nationwide Tour

February 2020 - March 2020

Led the lighting department on a national touring production featuring custom LED stained glass scenic and a Robe Spiider / Clay Paky Mythos rig. Tour concluded early when the COVID-19 pandemic shut down all live events.

- Managed all lighting department responsibilities including daily load-in, network and node monitoring, moving light maintenance and repair, and ensuring the rig was show-ready every night.
- Operated grandMA2 lighting console for Cain's opening sets nightly, programming and running full headlining-caliber lighting packages for the up-and-coming support act.
- Coordinated with production and crew leadership on load-in sequencing, local crew management, and daily logistics across a multi-act nationwide touring production.

Moving Lights Technician, Morris Light & Sound - Nashville, TN

2018 - 2020

Shop technician for a full-service production house supplying national touring and live event productions. Built foundational knowledge of professional lighting systems, fixture internals, and touring production workflows.

Education

B.B.A. Music Business and Production, Belmont University, Nashville, TN

2015 - 2018

Training & Certifications

Q-SYS Level 2, QSC | 2022

Dante Level 3 (2nd Edition), Audinate | 2022

CTS (Certified Technology Specialist), AVIXA | 2022

Netgear AVoIP Switch Certification, AVIXA | 2023

ANP (Audiovisual Network Professional), AVIXA | 2024

In-Progress CTS-D (Certified Technology Specialist – Design), AVIXA | Target: Summer 2026