

Richard Zeier

Audio Electronics Engineer

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Objective: to join a highly skilled team of professionals working with and developing the latest technology used in entertainment and media production.

Qualifications Summary

A self-managed creative technology expert with a strong background and passion for audio electronics and music production in a recording studio environment. A diverse work history that includes customer support, field service, manufacturing, and product design, in addition to having been a self-employed business person. A reliable and effective verbal communicator and producer of written, and media driven documentation.

Special Skills

- Audio Engineer familiar with all types of professional equipment and software used in music production, post production, audio recording and mixing, video editing, and digital mastering.
- Professional Studio Tech with years of experience installing equipment in racks and dressing cables for visual appeal and serviceability. Have routinely performed extensive repairs and modifications on equipment like consoles that can only be repaired onsite.
- Knowledgeable of Professional Audio Standards including wire types, connectors, signal levels, impedance matching, synchronization, electrical power and grounding schemes, for both analog and digital equipment.
- Experienced interpreting intricate schematics and working from engineering documentation. Have developed effective methods for problem solving and troubleshooting complex systems.
- Designer and builder of high-quality audio equipment and complex electronic devices. Highly skilled in the use of CAD software for the design of printed circuit boards and wiring diagrams.
- Proficient in the use of many types of test equipment including audio analyzers, oscilloscopes, signal generators, spectrum analyzers, and multi-meters. In-depth understanding of analog, RF, and digital circuitry with extensive experience performing component level repairs and modifications to a wide variety of electronic equipment.
- Expert soldering and electro-mechanical skills plus a general knowledge of building construction.
- Thorough understanding of ergonomics in studio workflow and fundamentals of acoustics, and can utilize those principals to optimize an existing space for audio production.
- Educated composer adept at creating music and sound design from both acoustic and electronic elements, including virtual sample libraries such as the Vienna Symphonic Library. Proficient Guitarist and Bassist, in addition to having finely tuned ears.
- 20 years of experience building custom computers specifically designed for media production and installing software.



Work History

Mid-Continent Instruments + Avionics, Van Nuys, CA 818-786-0300
(2008 - present) *Avionics Technician*.

Responsible for building and maintaining FAA required test equipment according to manufacturer specification. Routinely perform component level repair of aircraft radios, GPS receivers, navigation instruments, transponders and autopilot flight computers. Provide technical support explaining details of system failures to aircraft owners and flight line technicians.

One project of note was designing and building three different test fixtures that would simplify an exhaustive test procedure done on aircraft cockpit control modules. What made this project challenging was that the test fixtures had to be built and ready for use before the actual units to be tested would be available. To complete the assignment, I was given only a checklist of tests to be performed on the modules, and drawings and schematics of the modules. After the test fixtures were constructed, they were shipped to Wichita, KS where the testing is done. I have yet to see the actual modules being tested, but by all accounts, the test fixtures are being used very effectively.

Another personal accomplishment was the creation of a company-wide technical database for documenting elusive and time-consuming avionics repair problems, and making them searchable by equipment type, model, and type of problem. The database allows technicians to make entries on a form with drop-down selections and add written information along with the ability to attach pictures to the form.

Pearl Music / Rock It Science Audio, Hollywood, CA 323-851-2279
(2006 - 2008) *Audio Engineer/Producer/Electronic Designer*. (self-owned business)

Operated a music/audio production studio, overseeing all business and technical activities. Produced and managed media projects that included music CDs, sound design for stage, radio commercials, and audio for film. Provided technical services to other studios that included designing custom electronics for upgrading analog mixing consoles. That led to the eventual design of a commercially available Pro Audio product called the Axe Integrator, which is a Discreet Class-A Instrument Preamp for studio recording.

Martinsound, Inc. Alhambra, CA 626-281-3555
(1996-2006) *Technical Support Engineer*.

Provided technical support for all Martinsound professional audio products at the factory and in the field. Assisted engineering with product development, and created test procedures using the Audio Precision System One. The main products supported were Flying Faders mix automation systems, and Neotek Recording consoles, but also included other devices used in Post Production facilities.

Many of the jobs required field installations at major studios in the Los Angeles area, including 21st Century Fox studios, where I spent a month installing 2 Neotek ADR consoles with custom automation and another console on the Foley Stage. Another Neotek installation took me to San Juan, Puerto Rico. When the decision was made by Martinsound to sell Neotek, most of the crew was laid off. I had been in charge of the final assembly and testing of the consoles, but without a crew, the very last Neotek built in California was done pretty much entirely by myself. It may be the best one ever built.

Education

UCLA Extension — completed the Film Scoring certificate program
University of Wisconsin — 1 year of business studies
Wisconsin School of Electronics — completed technical certificate program
LaFollette High School, Madison WI — graduate