



CHANDANA DASSANAYAKE

Senior Broadcast Audio Systems Engineer | Audio Systems Consultant

Broadcast Audio · MCR/SCR · Live Sound Systems

Colombo, Sri Lanka | Open to UAE Relocation

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PROFESSIONAL SUMMARY

Senior Broadcast Audio Systems Engineer with 13+ years of hands-on experience delivering on-air-critical broadcast audio infrastructure, studio/control room builds (MCR/SCR), and large-scale indoor and outdoor live sound systems. Proven in end-to-end system design, equipment specification, vendor coordination, integration supervision, commissioning, and final system acceptance.

Strong expertise in Full HD broadcast environments, ITU-R BS.1770 loudness compliance (LUFS / True Peak), Dante-based audio networking, acoustic coordination, and system tuning/alignment. Experienced in leading technical teams of up to 20 installers/technicians and supporting 24/7 broadcast operations. Seeking exposure to higher-scale broadcast and live environments in the UAE.

CAREER HIGHLIGHTS

- Designed, built, and commissioned 2 on-air-critical MCRs and 5 SCR / recording studios, covering acoustics, signal flow, equipment specification, integration, and system acceptance.
- Planned and deployed 15+ indoor and outdoor live sound systems, including large-scale religious and cultural events with 17,000+ attendees, serving as Lead Engineer for system deployment and tuning.
- Implemented and maintained broadcast loudness compliance aligned with ITU-R BS.1770 (LUFS / True Peak) for consistent transmission output.
- Led equipment specification, brand selection, vendor coordination, and supervised installation teams of up to 20 personnel.

- Delivered technical training to 30–35 broadcast and production staff, improving operational readiness and workflow consistency.
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CORE EXPERTISE

- Broadcast Audio Systems Design & Consulting
 - MCR / SCR Design, Build & Commissioning
 - ITU-R BS.1770 Loudness Compliance
 - Live Sound System Engineering (Line Array Systems)
 - Acoustic Treatment Coordination & Room Calibration
 - Signal Flow Design, Patching & Cabling
 - Equipment Specification & Vendor Coordination
 - System Tuning, Optimization & Acceptance
 - Technical Team Supervision & Training
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SYSTEM DELIVERY – TECHNICAL SCOPE

Broadcast Control Rooms (MCR)

- Audio I/O: **8 Inputs / 6 Outputs**
- Usage: **Live on-air, recording & post-production**
- Format: **Full HD**
- Redundancy: **On-air critical**
- Compliance: **ITU-R BS.1770**
- Responsibility: **Design → Supervision → Commissioning → Final Sign-off**

Studio / Control Rooms (SCR)

- Audio I/O: **32 Inputs / 16 Outputs**
- Usage: **Live, recording & post-production**
- Format: **Full HD**
- Redundancy: **On-air critical**
- Compliance: **ITU-R BS.1770**
- Responsibility: **Design → Integration → Commissioning → Acceptance**

LIVE SOUND SYSTEMS EXPERIENCE

- System Type: **Line Array Systems**
- PA Systems: **RCF HDL30, HDL20, TTL55**
- Max Input Count: **20 channels**
- Event Scale: **Up to 17,000+ attendees**
- Environments: **Indoor & Outdoor**
- Role: **Lead Engineer**
- Scope:
 - System planning and deployment
 - Full system tuning and alignment
 - On-site technical leadership and optimization

PROFESSIONAL EXPERIENCE

Shraddha Media Network – Colombo, Sri Lanka

Senior Audio Engineer / Audio Systems Lead

March 2013 – Present

Broadcast & Systems Responsibilities

- Supported **24/7 broadcast operations** for **1 TV channel and 2 radio channels**.
- Prepared and finalized **transmission-ready audio deliverables**, ensuring compliance with **ITU-R BS.1770 loudness standards**.
- Designed, built, and commissioned:
 - **2 on-air-critical MCR environments**
 - **5 SCR / recording studios**
- Managed **equipment specification, brand selection, vendor coordination, and procurement support**.
- Supervised **up to 20 technicians/installers** during system implementation.

- Accountable for **final system testing, acceptance, and operational handover.**

Live Sound

- Planned and executed live sound systems for **large-scale national events**, serving as **Lead Engineer** responsible for deployment, tuning, and stability.

Training & Knowledge Transfer

- Delivered technical training to **30–35 staff members** through one-on-one sessions, group training, and workshops.
 - Topics included:
 - Loudness QC & broadcast standards
 - Console operation
 - Signal flow and patching
 - Audio editing, mixing & mastering
 - Studio calibration
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SELECTED CONSULTING & SYSTEM PROJECTS

British School Colombo – Auditorium Audio System

- Capacity: **300+ seats**
- Role: **End-to-end system design, installation supervision, commissioning**
- Status: **Fully operational**

SLTC Campus – Professional Recording Studio

- Configuration: **32-in / 16-out multitrack studio**
 - Role: **Design, supervision, installation & commissioning**
 - Status: **Fully operational**
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TECHNICAL SKILLS

Broadcast & Live

TV & radio broadcast operations • Transmission QC • Live system deployment & optimization

Studio & Acoustics

MCR/SCR design · Acoustic coordination · Room tuning & calibration

DAWs

Pro Tools · Cubase · Logic Pro · Adobe Audition

Mixing Consoles

DiGiCo S21 · Midas M32 · Allen & Heath Qu32 / GL4000 · D&R · Airmate 8

Processing / Broadcast Tools

Waves · FabFilter · iZotope · UAD · Slate Digital

Orban Optimod 5700i / 8685 · DBX DriveRack · Klark Teknik DN360 / DN540

Networking & Measurement

Dante · AES · Optical Audio Transport

Smaart · REW · EASE Focus · RDNet · DBX RTA

EDUCATION & QUALIFICATIONS

- Diploma in Fine Arts (Western Music) – National Youth Council (*Batch Top*)
 - City & Guilds – Sound & Music Technology (Level 1)
 - City & Guilds – Telecommunication (Level 1)
 - ABRSM Music Theory – Grade 5 (*Distinction*)
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ADDITIONAL INFORMATION

- Language: **English – Professional Working Proficiency**
 - Lecturer: **Western Music, Applied Music, Sound & Music Technology**
 - Open to **UAE relocation** for higher-scale broadcast and live system environments
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