D’Arcey Ciccone

Acoustical Consultant

Architectural, mechanical and environmental acoustics

San Diego, CA
Remote preferred
619-385-1525
darceyciccone@gmail.com

Analysis and design
Sound isolation
Room finishes and shaping
Mechanical noise and vibration
Environmental noise

Modeling and analysis
EASE with AURA, Treble
CadnaA, SoundPLAN
INSUL, Zorba, Mezzo
Pottorff AIM, REW, SketchUp
Vectorworks, DraftSight

Measurement
ASTM sound isolation and impact testing
DewesoftX multichannel vibration
NTi XL3, long-term monitoring

Standards and codes
ASHRAE, ANSI, ASTM
IBC, California Building Code
CEQA, CNEL, municipal noise codes

Project delivery
Assembly types and locations
Submittal review, drawing markups
Construction site observation
Client intake and scoping

Profile

Acoustical consultant with seven years of analysis, design, and measurement experience covering sound isolation, room acoustics, mechanical noise and vibration, and environmental noise. Joined a young firm early, helped build the practice, and leads its measurement capture and vibration instrumentation. Previously spent fourteen years in telecom, networking, and clinical software support, and brings working knowledge of AV and IT systems.

Selected work

Rehearsal Space

Inner City Youth Orchestra of Los Angeles · Room acoustics

Full acoustic and visual design of the orchestra’s rehearsal room, combining absorption, curved reflectors, and built-in quadratic diffusers to control reflections while keeping a natural reverberation. Consulted on the isolation wall assemblies.

Rooftop Equipment Isolation

Mixed-use building, Sacramento · Mechanical vibration

Helped diagnose a vibration isolation problem from rooftop HVAC and chiller units on a three-story building with a large residence above two commercial floors, then developed the isolator deflection needed to resolve it.

Server Rack Enclosure

Defense contractor laboratory · Mechanical noise

Reduced a 90 dB rack in a highly reverberant lab by nearly 30 dB. Designed the duct routing and 3D reduction model, partnered on materials and vibration isolation, and found and fixed a critical flaw before delivery.

Vibration and SPL Capture Campaign

Aerospace client · Vibration

Helped design and run a large simultaneous capture campaign using dozens of accelerometers and more than ten measurement microphones.

Protected Species Monitoring

Port of San Diego · Environmental

Monitored and reported sound levels on airport property near a fireworks launch site, supplying data to biologists working with the Port to assess effects on a protected bird species.

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Career

Acoustics
2019 to now · 7 years

Music
2017 to 2019 · 2 years

Travel, performing, and freelance recording

Technology
2003 to 2017 · 14 years

Telecom, networking, systems administration, and clinical software support

Additional disciplines

AV system design and troubleshooting
IT and network infrastructure
Process and department development

Also

Professional bassist for twenty years, which brings a trained ear to evaluating rooms and to explaining them to the people who use them.

Experience

Acoustical Consultant

2019 to present

RNS Acoustics · San Diego · hired as Associate Consultant

Joined early and helped build the practice, at times as its only consultant, leading client projects end to end and managing them concurrently. First choice for measurement capture and the firm’s specialist on its vibration instrumentation. Documents new procedures as they are developed and is contributing to SOPs and training materials for the firm’s next phase of growth.

Sound isolation and room acoustics. Defines required assembly types and where they go, verifies isolation with ASTM field testing, and predicts and models performance using INSUL, EASE with AURA, Treble, and Zorba.

Mechanical noise and vibration. HVAC duct attenuation in Pottorff AIM, equipment isolation, deflection calculations, inertia base design, and HVAC air turbulence studies.

Construction phase. Submittal review, drawing markups, and site observation.

Environmental. CNEL and CEQA studies, property line measurement, festival and fireworks monitoring, and an outdoor event venue compliance study with loudspeaker recommendations. Built a CadnaA workflow that turns geolocation data into contours without Global Mapper.

Developing a calculator that calibrates EASE AURA models to measured reverberation time through absorption coefficient adjustments.

Regularly complimented by clients after field visits, report reviews, and introductory calls for making technical findings clear.

Before acoustics

Level 3 Applications Expert

2012 to 2017

Xerox / Allscripts · Sunrise Clinical Manager

Highest escalation tier for the hospital patient record and clinical management system, debugging and resolving application issues for hospital clients.

InComm Conferencing

2003 to 2012

Teleconference Operator · Conference Technical Support · Multimedia Department Founder and Media Manager · Assistant Systems Administrator

Started as a teleconference operator, learning how telecom and audio interact. Founded a multimedia department from the ground up, inventing the cabling and techniques to record directly from telecom bridges to digital. It generated **$750K in profit** in its first year and is still operating. Then joined the IT team for networking and systems administration, finishing as assistant systems administrator while continuing as media manager.