Qualifications
Acoustical, Technology, and Lighting
Thorburn Associates (TA) specializes in the design and consulting of acoustics, technology, and lighting systems. We are involved with multiple market sectors which help to facilitate cross pollination of solutions between markets. With experience on over 2600 projects, one of TA’s strengths is our ability to provide an integrated solution for these technical aspects of the design. TA is a Woman-owned Small Business Enterprise (WSBE) with offices located throughout the U.S. to serve your needs.

Acoustical design combines art and science to modify noise to achieve a desired auditory environment. TA creates acoustical environments tailored to the occupants of each space. We combine our expertise with extensive laboratory and electronic testing equipment to meet the unique sound sensitivities of each project.

Room Acoustics – Sound Isolation – Mechanical Noise – Vibration Isolation – Environmental Noise

Technology systems design is an ever-growing industry bolstered by the constant demand for multimedia communications. TA works with our clients to develop the system that will best meet their needs while planning for and understanding maintenance, upgrade, and expansion needs.

Audiovisual Systems – Telepresence – Sound Masking/Paging – Structured Cabling – Security

We specialize in illumination design, a term that describes aspects much broader than the standard overhead electric lighting system; illumination also includes direct natural light, indirect natural light, indirect artificial light and reflected light, as well as the control of all light sources. As solution providers, TA enhances an environment through innovative yet practical lighting schemes.

Lighting Design – Fixture Layout – Specifications – Control Systems – Daylighting
The Inn at Spanish Bay is a 270 room luxury hotel located just 1,000 feet from the Pacific Ocean along Seventeen Mile Drive in Pebble Beach, CA. The standard guest room is over 550 square feet with a fireplace and outdoor decks or patios. Facilities include The Links at Spanish Bay (an 18-hole championship golf course) and a convention complex with associated dining facilities and retail spaces.

Built along a natural ridge line, the Inn appears to hug the sand dunes and wind among the trees. Finish materials used to help the Inn blend into its natural environment include earth-toned clay roof tiles, copper chimney caps and facias, and sand-colored stucco. The Links, located between the Inn and the ocean, was designed to complement and provide an alternate golfing location to the Pebble Beach Course.

The Pebble Beach Company, which developed the resort, was concerned with mechanical noise control and the acoustical design issues of individual guest rooms, meeting rooms, and conference facilities. Their goal was to achieve a high level of sound isolation with very quiet background sound levels.

To accomplish this, the guest room walls and ceilings received special acoustical treatments such as resilient channels, multiple layers of gypsum board, and gypcrete topping slabs. This high level of acoustical detailing made every issue critical. Door gaskets and perimeter caulk were used to seal the walls airtight and all outlet boxes, pipe, and duct penetrations were scrutinized. Mechanical noise was reduced by insulating all plumbing shafts and caulking all pipe penetrations.

Construction administration was critical to the success of this project. Monthly site visits were implemented to ensure that construction document details were followed. These site visits indicated that initial plumbing noise control requirements were not being met. Additional mock up tests were made of the guest rooms' mechanical ventilation system to ensure that the environment would meet the acoustical criteria established during the design phase. Other acoustical issues addressed during construction included the fan coil units and the chilled water system.
Harveys Resort Hotel Casino is located on the pristine shores of America’s largest alpine lake and features 740 deluxe rooms and suites, six restaurants, gaming tables, sports book, slot machines, plus a full-service health club, pool and spa, convention center, cabaret theatre, wedding chapel and arcade.

Thorburn Associates was retained for multiple projects including the system design for the Sports book/Lounge area, development of an audio system master plan and design of background audio and paging systems.

The master plan and design included a review of the existing system, detailed requirements for the new audio system, described the audio control system, and made recommendations for the most cost effective sequencing.

The control system provides the ability to schedule marketing announcements on a regular basis as well as insert live announcements as needed. The background audio system includes remote monitoring of audio levels and automatically increases the volume of the background audio above the ambient audio levels to help insure that music and announcements can be heard above the overall crowd noise.

The Hotel/Casino remained open and operational throughout all phases of the project.
Rooted in the very heart of San Francisco's popular financial convention and shopping triangle, ANA Hotel San Francisco faces the Moscone Convention Center, San Francisco Museum of Modern Art, Center for the Arts Yerba Buena Garden, and is only two blocks from the fashionable Union Square shopping. ANA Hotel San Francisco rises 36 stories and features 667 luxuriously appointed guest rooms including 26 suites, all with panoramic city views from expansive floor-to-ceiling windows.

Thorburn Associates, Inc. provided audiovisual system design and construction administration during an upgrade of the divisible ballrooms and conference rooms. The ballroom can be divided into three rooms and has provisions for five separate head table locations and different loudspeaker zones. The room combining system allows for the linking of rooms, muting head table loudspeakers, setting the appropriate audio signal delay, and linking volume control with visual feedback, when the rooms are combined. The combinable conference rooms have provisions for three separate head table locations, three different loudspeaker zones each with individual delay, equalization and room combining switching to distribute the sound around these rooms in one of five different room groupings and head table locations. The individual meeting rooms have stand-alone sound systems. A small sound reinforcement system is located in the first floor Piano Bar/Restaurant. Four microphone jacks are located on the “stage”. The CD player, mixer and power amplifier are located behind the bar back and below the TV. In addition, every room that has a speech and/or audio program reproduction has a hearing assistance system.
Set along a sunny hillside, The Villages is an active senior citizen community whose central attraction is its golf course and adjacent country club. This is a place for the residents to gather, dine together, spend some time at the pro shop, attend a banquet, or just relax in the central plaza area. The clubhouse is also used for community information meetings, parties, musical concerts, theater performances, dances, holiday festivities, and worship services.

The club building is a one story structure covering 14,400 square feet. It houses a bar/lounge area, divisible meeting and dining rooms, a grille, and a kitchen. The architect, Kenneth Rodrigues & Partners, Inc., stressed the importance of acoustical treatments and sound isolation as a consideration for the guests of the clubhouse. Low background noise levels were essential to aid in speech intelligibility within the facility. To meet the criteria necessary, rooftop HVAC units and associated ductwork were isolated to prevent transmission of mechanical noise. Sound isolation constructions for walls and ceilings around the kitchen were also important to suppress the busy noises of a crew preparing meals. Walls and floors which would reverberate from the drop of a dish or scrape of a chair had to treated with suitable materials to prevent hearing aid wearers from suffering from the clatter.

The audiovisual system for this clubhouse contains a radio frequency hearing assistance system, multiple audio inputs, portable and ceiling-mounted projection equipment, distributed ceiling-mounted loudspeakers, video monitors, paging capabilities, an audio control system which is simple to operate, and provisions for the future installation of a cable broadcast system.
Aladdin Hotel & Casino
Westsun

Las Vegas, NV

The nationally acclaimed Aladdin Theatre for the Performing Arts is a completely renovated 7,000-seat auditorium in Las Vegas, Nevada. Guests can catch a top performing artist, major concert tour, awards ceremony or even a televised music event. In 2011, it was voted as one of the “Best Concert Halls & Theaters in Las Vegas.” This mid-sized venue has a curtain system that allows the owners to vary the capacity of its performances from 2,500-7,000, which is a rare find in this particular market. Thorburn Associates (TA) provided acoustical consulting services which included sound isolation, room acoustics, mechanical noise and vibration control. In 2012, the auditorium was renamed PH Live at Planet Hollywood Resort and Casino.

Harvey's, Kanesville Queen Riverboat Casino
Harveys

Council Bluffs, IA

Audio system master plan and design for a 270-foot long riverboat casino which holds 1,700 guests. Developed concepts for cross selling, ambient volume control, control zones, paging requirements, and background music. The system is integrated into three gaming decks containing over 1,200 gaming stations and covering 26,000+ square feet. The 345 loudspeakers broadcast at different volume levels depending upon the noise level in each particular zone.

High Roller Suite Las Vegas
Klai Juba Architects

Las Vegas, NV

Provided acoustical solutions, input to the specification, and product recommendations to meet the high level of finishes/sound isolation expected for this suite. This project was a build-out of approximately 5,200 sf on the North end of the Eleventh Floor of an existing Tower with Living Area, two master bedrooms with master bath and Jacuzzi and bar/game room including bowling alley and balcony spa. Square footage also includes approximately 1,000 square feet of Public Corridor.

Hotel Indigo
CJMW Architecture

Wilmington, NC

Thorburn Associates provided design services for the newly built Hotel Indigo in Wilmington, North Carolina. Thorburn Associates scope of work included design for Music systems covering the Main Lobby, Lower Lobby and 9th Floor Pool and Bar areas. The scope also included designing Video systems to deliver video content to the Main Lobby Level Restaurant and Bar, the 9th Floor Bar, the 9th Floor Flex Spaces. The Lower Lobby Fitness Center had both music and video to this area.
**Hotel Ray**

The Ambrose Group Hotels

Provided acoustical consulting services and an environmental noise study for the design of a new luxury boutique hotel in Venice, CA known as Hotel Ray. The hotel is a 55,000 square feet, five story, 57-room hotel, which will sit above two levels of subterranean parking. The hotel amenities include: roof top pool and deck, spa and fitness center, restaurant and retail outlets.

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**International Hotel**

Gordon H. Chong & Partners

San Francisco, CA

Provided input for acoustical design of interior spaces, sound isolation requirements, and mechanical noise and vibration control methods. Additionally designed the audiovisual system for this facility, which contains 17 stories with 104 housing units (84 studios) and a community room.

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**Mark Hopkins Hotel**

Blenheim Associates, Ltd.

San Francisco, CA

Provided sound and impact isolation recommendations for the floor/ceiling between the Top of the Mark restaurant and the luxury suites below it. Also performed measurements and provided recommendations for sound isolation between guest rooms within the hotel.

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**Marriott Residence Inn**

15th & L, LLC

Sacramento, CA

Acoustical consulting services including an environmental noise study and overall acoustical design for the hotel. The project is 15-stories high with public space, hotel, and the upper level apartment/condominiums.

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**MGM East**

Turnberry Ltd.

Las Vegas, NV

A 45-story luxury resort condominium, 576 units within 44 residential floors over a lobby/pool deck level with a slab footprint of approximately 20,000 square feet. The lobby and pool deck is over three levels of parking, of which one level is below grade. TA provided sound isolation control and other acoustical consulting services for the residential area as well as plumbing, elevator, trash chute and rooftop equipment noise control.
Hotels and Convention Centers

Selected Project Experience

**MGM Turnberry**
Turnberry

Las Vegas, NV

Conducted spot measurements to determine the noise levels produced by the nearby LAS airport. TA completed a detailed review of the proposal building shell. TA provided a letter with recommendations for initial design issues that allowed the building shell to provide the required 30 decibels of noise reduction.

**Napa Valley Sheraton Inn, Conference Center**
Equitable Real Estate Investment

Napa, CA

Evaluation of the Conference Center's existing audiovisual system. Upgrade recommendations included presentation lighting, projection screens, room acoustics, and speaker systems.

**Ritz Plaza Hotel**
DMJM Design

Miami Beach, FL

Acoustical and data/telecom consulting services for the expansion of the lobby, suites, and rooftop HVAC systems.

**The Chateau of Mandalay Bay**
Klai Juba Architects

Las Vegas, NV

The Chateau contains a number of private suites for invited guests of Mandalay Bay Properties. The goal was to isolate noise the adjacent suites so that "every guest feels like they are in their own villa". Thorburn Associates made recommendation to achieve these goals by upgrading the atrium windows, developing specialized wall and floor/ceiling constructions, and specifying mechanical noise and vibration control methods.

**Turnberry Place**
Turnberry Pavilion Partners Ltd.

Las Vegas, NV

Developed party wall, floor/ceiling constructions, and other acoustical details to provide luxury criteria and made recommendations to help limit the amount of noise transferred between units. Provided noise control from the plumbing noise, trash chute, elevator noise and rooftop equipment.
University of Illinois Hotel and Conference Center
University of Illinois

Located on the property of the University of Illinois campus, the conference center is part of an upscale hotel chain that has leased the property through the university. The 38,000 square foot facility hosts 12 meeting rooms and the large ballrooms can provide banquet-style seating for 30 to 500 people or theater-style seating for up to 700 people. Various ballrooms are equipped with sound reinforcement and built-in video projection equipment. The conference center utilizes a centralized control room that houses shared resources, audio processing, signal routing, and technicians control station. TA provided acoustical and audiovisual design services, including a wayfinding design for the conference center.

Wilmington Convention Center
LS3P/Boney Architects, Inc.

Thorburn Associates (TA) provided Acoustical and Technology Design Consulting Services for the Wilmington Convention Center located in downtown Wilmington, NC. This was new construction of a $59 million 105,000 SF convention center. The design includes exhibit hall, ballroom, breakout rooms, and support spaces all on a single level and is attached to an open-air parking structure accommodating 600 cars. For Acoustical Engineering, TA provided room acoustics, mechanical noise and vibration control and sound isolation as required for the convention center and parking garage. For Technology Systems Design, TA provided audiovisual design services for the Exhibit Hall, Grand Ballroom, Junior Ballroom, Board Room, five Meeting Rooms and Pre-Function Spaces. TA also provided data/telecom design services for the facility. The Convention Center has received LEED silver certification from the U.S. Green Building Council.
THE COMPANY
Thorburn Associates (TA) is a full service Acoustical, Technology, and Lighting Design and Engineering firm.
TA was founded in 1992 by principals who have consulted on and managed more than 2000 projects.
We provide a full range of services which allow the client, architect, or end-user a single point of contact during design and construction.
Our staff is comfortable providing traditional design or design/build services and is experienced with the partnering process.

AWARDS
TA principals have received four awards from the International Communications Industries Association:
- Professional Education and Training Committee Award, 1996-97
- First Place - Systems and Facilities Design, 1991, project: CSA Audiovisual Presentation Studio
- Award for Systems and Facilities Design, 1990, project: City of Fremont’s Council Chambers Audiovisual Upgrade
- Educator of the Year, 2011

Themed Entertainment Association
THEA Outstanding Achievement Award:
- Paramount’s King’s Island "Tomb Raider: The Ride" 2002
- Universal Studios "Amazing Adventures of Spiderman," 2000
- Universal Studios "Islands of Adventure," 2000
- Columbus Center of Science and Technology (COSI), audio, video and control system engineering services and acoustical design 2000

Building of America Award, 2007, Mountain View Senior Center

Northern California Region’s Most Important New Construction/Renovation, 2007, San Francisco GSA Federal Office Building

AIA Winner of Architecture and Excellence Award, 2007, Plaza Apartments

PHILOSOPHY
At TA we are both sensologists and technologists: Acoustic and lighting designs affect the senses and how someone feels within a space; Audiovisual, structured cabling, and security designs are technology-oriented and require attention to detail as well as current knowledge of the industry and where it is headed.

We are dedicated to doing whatever it takes to help make your project a success.
- Our consultants stay up-to-date on the latest technologies and develop in-house procedures to insure the quality of our work, such as custom computer programs to improve efficiency and provide quality control for redundant calculations.
- Extensive laboratory and electronic test equipment allows us to efficiently document all aspects of design.
- Simulations allow you to “hear” or “see” how your facility will look and sound before it is built.
- Our design packages are complete and require minimal clarification during the construction phase.
- Experience with the construction process provides the practical background experience necessary to recommend solutions that are both innovative and effective.
- Our level of project detail allows for true competitive bidding from installation contractors.
- Our principals take an active role throughout a project so you, our clients, get the level of quality you deserve and require.

From design through construction, TA has the experience, knowledge and technology to make your project a success.

GSA CONTRACTS
- Schedule 58: Professional Audiovisual, Telecommunications and Security Solutions
- Schedule 66: Scientific Equipment and Services

FACILITY TYPES
- Commercial and Retail Buildings
- Conference Rooms
- Educational Facilities
- Hospitals and Medical Facilities
- Hotels and Casinos
- Large Format Theatres
- Libraries and Community Centers
- Office Buildings, Research Facilities
- Places of Worship
- Presentation Facilities
- Recording, Broadcast and Post-Production Studios
- Single and Multi-Family Housing
- Training and Board Rooms
- Theme Parks and Destination Resorts

CONSULTING SERVICES
- Acoustical Engineering (Room Acoustics, Sound Isolation, Mechanical Noise / Vibration Control, Environmental Noise)
- Technology System Design (Audiovisual, Structured Cabling, Security)
- Lighting Design (Commercial, Leisure, Day-lighting, Energy Analysis)
- Expert Testimony

WBE/SBE/HUB
- Certified as a Small Business (SBE) with the State of California and the San Francisco Redevelopment Agency
- Registered as a Historically Underutilized Business with the State of North Carolina (HUB)
- Certified as a Women Owned Business (WBE) with the California Public Utilities Commission

WEB ADDRESS
www.TA-inc.com
email to: JustAsk@TA-inc.com
The following acoustical, technology (audiovisual, structured cabling, security), and lighting design issues are typically found or required in our work:

**Architectural Room Acoustics**
- Conceptual and Detailed Architectural Acoustic Design
- Acoustic Analysis of Existing Facilities
- Speech Intelligibility
- Reverberation and Clarity of Sound
- Reflection, Diffusion, and Absorption of Sound
- Aspect Ratios to Promote Excellent Room Acoustics
- Room Finishes and Furnishings
- Room Modeling
- LEED Analysis and Support

**Sound Isolation**
- Speech Privacy within Rooms
- Floor/Ceiling and Wall Details to Prevent Noise Transmission
- Window, Door Selections to meet Sound Isolation Criteria
- Mitigation of Interior and Exterior Noise to Reduce Transmission to Sensitive Spaces

**Mechanical Noise and Vibration**
- Vibration Isolation
- Industrial Noise Control
- Mechanical Systems, Plumbing Systems
- Ventilation Systems - Duct Rumble, Diffuser Hiss, Rooftop Units
- Control of Central Plant, Co-Generation, and Emergency Generator Noise
- Monitoring of Construction Related Noise and Vibration

**Environmental Noise Abatement**
- Traffic Noise Studies
- Highway, Aircraft, and Railroad Noise
- Interior and Exterior Noise Surveys, Data Analysis, and Reporting
- Community Noise Monitoring and Report

**Audiovisual System Engineering**
- Sound System Design
- Video System Design, Video Information Systems
- Foreground and Background Music Systems
- Video and Film Projection Systems
- Facility Master Plans for Growth and Expansion
- Equipment Evaluation, System Adjustment
- Control System Design and Programming
- Distance Learning Systems
- Room Environment Control
- Design of ADA Technology
- Digital Signage and Video Walls

**Lighting System Design**
- Concept Development
- Luminaire Layouts and Specifications
- Standard and Specialty Control System Design and Programming
- Budgeting and Cost Tracking
- Bidding and Negotiation
- Mock-Ups
- 3-D Renderings and Detail Sketches
- Energy Optimization
- Sustainable Design
- LEED and ASHRAE Support
- Daylighting and Daylight Harvesting
- Installation Administration
- Theatre Systems Evaluation and Design

**Security System Design**
- Vulnerability Assessments
- Feasibility Studies
- Master Planning
- Standards Review, Development
- Design and Engineering
- Construction Administration

**Structured Cabling Design/Information Technology**
- Initial structured cabling system design
- Telecommunications Room Space Allocations
- Power requirements/Conduit and Junction Boxes
- Structured Cabling Systems Sections and Elevations
- Equipment Mounting Requirements
- Equipment Space Coordination
- Wired and Wireless IT systems
- Building Integration Technology
- Web-enabled Control Systems

**Construction Administration**
- Sound and Vibration Testing
- Bid Management/Contractor Selection
- Cost/Change Control
- On-site Observation/Quality Control
- Schedule Management
- Submittal Reviews/Requests for Information
- Performance Testing/Training

**Expert Testimony**
- Construction Defects
- Sound Isolation
- Traffic Noise
LISA A. THORBURN, LEED-AP, CTS
PRESIDENT

EDUCATION
Michigan Technological University
B.S. Scientific and Technical Communications
Major: Computer Science and Business Administration

Board Room Design Course, National Systems Contractors Association, 1994
A/V Systems and Equipment course, International Communications Industries Association (ICIA), 1998
Essentials of the A/V Industry course, International Communications Industries Association (ICIA), 1998

INDUSTRY CERTIFICATIONS
USGBC: LEED AP
InfoComm: CTS

PROFESSIONAL SOCIETIES
- American Institute of Architects, Affiliate Member
- Themed Entertainment Association
- Society for Marketing Professional Services
- InfoComm International
- Vistage International

AREAS OF EXPERTISE
Ms. Thorburn practices Acoustical and Technology System consulting in the following areas:
- project management
- specification preparation
- technology needs analysis
- architectural acoustics and sound
- isolation
- mechanical noise and vibration control

Ms. Thorburn has served as a project manager and consultant on numerous projects. Her background covers Multimedia Presentation Requirements, Video and Teleconferencing, Computer Programming, Technical Communications, and Project and Business Management.

Ms. Thorburn’s communication skills allow her to translate technical data into a format that is both usable and understandable by the client and the rest of the design team.

During the course of a project, she typically manages the overall coordination of the design process and all related procedural information. It is her responsibility to make sure that all project milestones are achieved on time. She is also responsible for ensuring that the architect and client are kept up to date on the project schedule and facilitates communication between the members of the design team.

Her experience with Computer Programming allows her to develop both efficient and cost effective technology systems and multimedia facilities.

PUBLICATIONS and LECTURES
Ms. Thorburn frequently writes technical articles on both acoustical design and technology system design issues.


PROFESSIONAL EXPERIENCE
Selected project experience includes:
- Adeline Training Facility – Oakland, CA
- Alta Bates Medical Center Conference and Education Center – Oakland, CA
- Archbishop Mitty High School – San Jose, CA
- Calaveras County Courthouse – Calaveras, CA
- Cesar Chavez Education Center – Oakland, CA
- Contra Costa County Fire Protection – Contra Costa, CA
- Convent Gathering Space – San Rafael, CA
- Guilford N. High School – Richmond, CA
- HP Facilities Services – Palo Alto, CA
- HP Executive Briefing Center – Cupertino, CA
- Discovery Bay Homeowners Association – Discovery Bay, CA
- iWERKS Cinetropolis – Chiryu, Japan
- Maricopa County Community College, Open Ended Acoustics Agreement – Maricopa, CA
- North Carolina State University, Open Ended AV Agreement – Raleigh, NC
- On Lok Larkin Senior Living – San Francisco, CA
- Prospect Hills, Mills College – Oakland, CA
- SAP Technology Inc., Cafeteria – Palo Alto, CA
- SAP Technology Inc., Executive Briefing Center – Palo Alto, CA
- Splinter Residence – Granite Bay, CA
- The Learning Company Headquarters – Fremont, CA
- Regional Director’s Conference Room – Sacramento, CA
- University of North Carolina at Chapel Hill, School of Pharmacy – Chapel Hill, NC
AREAS OF EXPERTISE

Mr. Thorburn practices acoustical consulting and audiovisual system design in the following areas:

- Architectural acoustics
- Mechanical noise control
- Audiovisual, sound and control systems
- Video and teleconference systems
- Security

Mr. Thorburn, as a founder of Thorburn Associates, has served as project manager and consultant on over 2600 different projects.

He is active in projects that require both acoustical engineering and technology system design services. His dual degrees from Michigan Technological University in theatre design and electrical engineering enable him to coordinate technical requirements involved in the construction bid process with practical issues required by the end-users.

His projects have included performing arts centers, recording facilities, entertainment facilities, presentation and conference facilities, government and university buildings, film and video studios, luxury hotels, libraries, churches, and medical facilities.

Mr. Thorburn was responsible for developing the International Communications Industries Association’s Design Consultant’s Council.

He regularly attends conferences, trade shows, and product exhibitions that allow him to recommend the most cost-effective yet functional products to meet his client's needs. Manufacturers often ask for his input on the 'next generation' of system components.

PUBLICATIONS and LECTURES

Mr. Thorburn frequently teaches seminars and lectures on both acoustical consulting and audiovisual system design. Recent topics include:

- Planning for Classroom Technology
- Presentation Facilities Design
- Surviving the Construction Process
- Acoustics in Architecture

He is also a regular contributor to industry publication, Systems Contractor News.

PROFESSIONAL LICENSES

Mr. Thorburn is a registered Engineer in the following states:

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INDUSTRY CERTIFICATIONS

ICIA Certified Technology Specialist, Design and Installation
USGBC LEED AP

PROFESSIONAL SOCIETIES

- Acoustical Society of America
- American Institute of Architects
- Audio Engineering Society
- InfoCOMM
- Institute of Electrical and Electronic Engineers
- National Council Acoustical Consultants
- National Society of Professional Engineers

PROFESSIONAL EXPERIENCE

Projects he has managed and consulted on include:

- Arizona Mills IMAX Theatre – Tucson, AZ
- Cisco Systems Executive Briefing Center, Santa Clara, CA
- Cold Canyon Landfill/Sort Facility, San Luis Obispo, CA
- Dempsey E. Benton & E.M. Johnson Water Treatment Plant – Wake County, NC
- Durham County Justice Building – Durham, NC
- Federated Department Stores – Multiple Locations
- Harvey’s Resort Hotel/Casino, South Lake Tahoe, NV
- Hewlett Packard Sound Masking – Cupertino, CA
- Kaiser - Geary Campus Medical Office Building, San Francisco, CA
- Knott’s Camp Snoopy Amusement Park, Bloomington, MN
- Lockheed Martin Aeronautics Company – Palmdale, CA
- Lotte World – Seoul, Korea
- Minnesota Zoo 3-D Theatre, Minneapolis, MN
- New London Presbyterian Church – New London, PA
- Nissan North America, Corporate Headquarters – Franklin, TN
- UNC, Chapel Hill, Dental Science Building – Chapel Hill, NC
- Sioux Falls Historic Courthouse and Law Library, Sioux Falls, S.D.
- Stanford University - Graduate School of Business, Stanford, CA
- Sutter Medical Center, Sacramento – Sacramento, CA
- Wachovia Bank – Charlotte, NC
- Wilmington Convention Center – Wilmington, NC
- University of Illinois, Various Projects – Urbana, IL