



# ABD Engineering & Design

Architectural Acoustics ▪ AV Design ▪ Noise & Vibration

## Recording/Production/Broadcast Studios

*Statement of Qualifications*

Acoustical Consulting & Audiovisual Design



# ABD Engineering & Design

ABD Engineering & Design is an independent acoustical engineering and audiovisual design firm, proud to be a nationally and state (OR, WA) certified Women Owned business. We work with you to provide practical solutions with options that allow for informed decisions. Our timely communications and responsiveness give you the right information at the right time. The cornerstones of ABD's work include data collection on site, research, and calculations to deliver evidence-based designs. With decades of experience across multiple markets, and a team of consultants from varied backgrounds, you can count on ABD to bring you the best in audiovisual design and acoustical consulting.

At ABD, we strive to create a future where every day spaces meet the acoustical and audiovisual needs of every person. We are committed to providing an open, inclusive workplace where everyone, no matter what their background or where they come from, can learn and grow to their full potential.

## Certifications

**WBENC:** WBE1701950

**OR-COBID-WBE:** 11342

**WA-OMWBE:** W2F0027557

**WI-WBE:** WI-13264



## Professional Memberships

Acoustical Society of America

Institute of Noise Control Engineering

American Society of Testing and Materials

National Council of Acoustical Consultants

AVIXA (CTS-D)

## Staff Count

Acoustics = 8

Audiovisual = 2

Leadership/Admin = 2

## Contacts

**Principal Engineer:** Melinda Miller, PE [mmiller@abdengineering.com](mailto:mmiller@abdengineering.com)

**Contracts/Billing:** Marci Boks, COO [mboks@abdengineering.com](mailto:mboks@abdengineering.com)

**New Projects:** Brian Atkinson, [client@abdengineering.com](mailto:client@abdengineering.com)

**Incorporated:** S-Corp incorporated 10/30/2001 in the State of Michigan

**EIN:** 38-3631490

**DUNS:** 104088682

**NAICS Code:** 541330

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**ABD Engineering & Design**

Architectural Acoustics • AV Design • Noise & Vibration

# Recording/Production/Broadcast Studios

## Acoustical Engineering and Audiovisual Design



Critical to any recording or performing environment is a fluid marriage between acoustics and technology. At ABD Engineering & Design, our consultants are experts at combining enhanced audio and video systems with optimized room acoustics. The result is a fantastic creative environment for performers and technicians alike. Recording spaces, radio and television studios, and sound stages for film and video all require spaces that maximize acoustical performance while minimizing distractions from noise (from inside or outside the rooms). Renovating and re-purposing existing buildings and space often require noise studies to keep desired sound in, and unwanted noise out. As an independent acoustical consulting and AV design firm, we take into account the whole equation, from the talent to the recording staff, and we design spaces where every expression can be seen and heard with pristine clarity.

### Audiovisual Systems Design

Our audiovisual consultants are experts at designing custom AV systems, and we work closely with our clients to determine their specific technology needs. We design systems for every level of production, from intuitive designs for student spaces to sophisticated systems for professional production. Costs are estimated early in the process to bring needs and desires in-line with the budget. When a client wants to choose their own equipment, we design the infrastructure to support their system design. We create audiovisual systems drawings and specifications, working with project architects to integrate

the equipment into their designs and working with engineers to advise on AV equipment heat and electrical loads.

### BIM Design

Building Information Modeling (BIM) is an intelligent 3D modeling and database-based process that gives architecture, engineering, and construction (AEC) professionals the insight and tools to more efficiently plan, design, construct, and manage buildings and infrastructure. ABD's design professionals use BIM as a collaborative design process, not just a documentation tool, making use of Cloud-based resources for smoother real-time collaboration with our partners. Our team performs QA/QC within the model for accuracy beyond what appears on a drawing or sheet. We're using Revit families for better visualization. This helps our clients gain insight into system performance, loudspeaker coverage, projection system geometry, and sight lines. ABD's BIM process also provides more accurate coordination with other disciplines including MEPS, lighting, furniture, and specialty equipment.



### Architectural Acoustics

Great recording spaces have great acoustics, optimized for performed music, voiceover, and actors. At ABD Engineering & Design, we use 3D modeling software to accurately predict the acoustical response of to accommodate the varying needs. In existing spaces, we take high tech sound measurements to map the "acoustical fingerprint" of the room. This data enables us to offer detailed recommendations for construction features that optimize reverberation and maximize speech intelligibility, creating an even acoustical response throughout the studio.

### Objective Recommendations

As an independent acoustical and AV

consulting firm, we have no affiliations with or affinity for any particular brands, products, technologies, or suppliers. We bring objectivity and unbiased recommendations that are best suited to your facility – procured through a competitive bid process to create superior designs at or below budget.



### Experience

The ABD Engineering & Design team has extensive acoustical design and engineering experience. In addition, staff members have held teaching and research positions at various colleges and universities and regularly conduct educational seminars, conferences, workshops, and institutional training sessions on acoustics, and environmental noise and vibration control.

### LEED Design

The LEED design guidelines set the pace for a higher standard in sustainable facility design. Our professional engineers are well versed at meeting the LEED for prerequisite requirements for reverberation time, sound transmission, and background noise levels, and will guide you through the LEED certification process.

### Green Design

ABD Engineering & Design is a leader in the acoustical and AV design community for creating sustainable facilities. Our own Green Initiatives put theory into practice to reduce our own corporate carbon footprint. Every employee's "green ideas" help to improve energy efficiency and environmental quality of life. These organic solutions improve all of our offices, further solidifying our commitment to the environment.



**ABD Engineering & Design**  
Architectural Acoustics • AV Design • Noise & Vibration

# Recording/Production/Broadcast Studios Selected Experience



**April Music**  
Seoul, South Korea  
Listening Reference Room

**Detroit Institute of Music Arts (D.I.M.E.)**  
Detroit, MI  
Rock Music School  
Classrooms, Performance, Practice, Recording studios

**Eckel Industries**  
Morrisburg, Ontario  
Apple Listening Room  
Motorola Listening Room

**Grand Rapids Community College**  
Grand Rapids, MI  
Albert P. Smith Music Center  
Recording Studios, Composition Studios

**Hope College**  
Holland, MI  
Martha Miller Center for Global Communications  
TV Studios, Recording/Production Studios



**Interlochen**  
Interlochen, MI  
Music Complex

**Michigan State University**  
East Lansing, MI  
Community Music School  
Detroit, MI  
Community Music Center

**Music Settlement**  
Cleveland, OH  
Music School in mixed-use development  
Music Therapy/Observation

**Nestle Production Studio**  
Cleveland, OH  
Noise Study  
Warehouse adaptive re-use to Corporate  
Production Studios

**Ren Sin Ventures Recording Studio**  
Cleveland, OH  
Noise Study  
Garage adaptive re-use to Recording Studio



**Schweitzer Engineering Laboratories**  
Pullman, WA (projects under NDAs)  
80,000 SF Conference Center  
Video Studio Expansion

**South Salem High School**  
Salem, OR  
Broadcast Studios, Production Studios

**Spartan Stores**  
Byron Center, MI (*starting design*)  
Video/Photo Production Studios

**St. John Paul II Catholic Church**  
Cedar Springs, MI  
Streaming Services

**Ted Lasker Studio**  
Leggett, CA  
Barn adaptive re-use to Recording Studio

**University of Michigan**  
Ann Arbor, MI  
Digital Education and Innovation Lab  
Inst for Healthcare Policy & Innovation  
Journalism & Screen Studies Relocation

**University of Oregon**  
Eugene, OR  
Experience Hub: Broadcast Suite, Podcast  
Studios, Production Studio, Control Room.

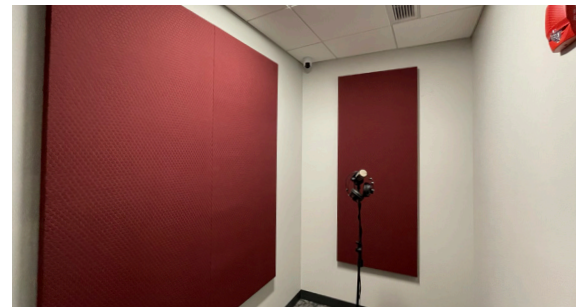
**Western Michigan University:** Kalamazoo, MI  
WMUK Radio: Broadcast Studios

**Video Studio Expansion:** Eastern Washington

This listing represents portions of the collective career experience of the ABD Engineering & Design Staff.

# School Broadcast Studios

Project Name	<b>Wheaton Academy Academic Building</b>
Location	West Chicago, Illinois
Year Completed	August, 2024
Budget-Size	\$30M - 32,290 SQ FT
Description	<p>ABD Engineering &amp; Design worked with AMDG Architects on the academic building addition that included Broadcast Studios, learning spaces, and commons.</p> <p>ABD's audiovisual design first addressed master planning to establish standards for the project and the school. We provided peer-review of the low-voltage contractor's classroom AV for the academic spaces. Our audiovisual infrastructure and systems design for the broadcast spaces and commons, including a large video wall.</p> <p>Our Acoustical consulting services included room acoustics, noise isolation, and mechanical noise control focused on the broadcast suite. The studio required variable room conditions, low sound transmission from and to other spaces, and a low noise floor required for the studio recording areas.</p>



# Video Studio Projects

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Project Name    **Video Studio Expansion**

Location        Eastern Washington State

Description    ABD Engineering & Design was hired by a national engineering firm to assist with the expansion and improvement of their existing video studio in Eastern Washington State. The studio, in the basement of a 5-story office building, presented a number of acoustical challenges, including a fast-paced schedule and finding practical solutions for the existing space to meet their needs without over-designing.

ABD's acoustical consultants worked with our client to develop a plan for the studio and the modifications needed to achieve their production goals. Our recommendations included details for the room acoustics, noise isolation, and mechanical noise control. True for any recording space, the mechanical system noise needed to be low enough not to interfere with the program audio, while acoustical treatments needed to blend into the room and be out of view from the cameras. Likewise, the studio is now isolated from adjacent spaces to avoid sound-transfer into and out of the room.

Following their first recording session, they said, *"The space looks great and the end users are happy."*

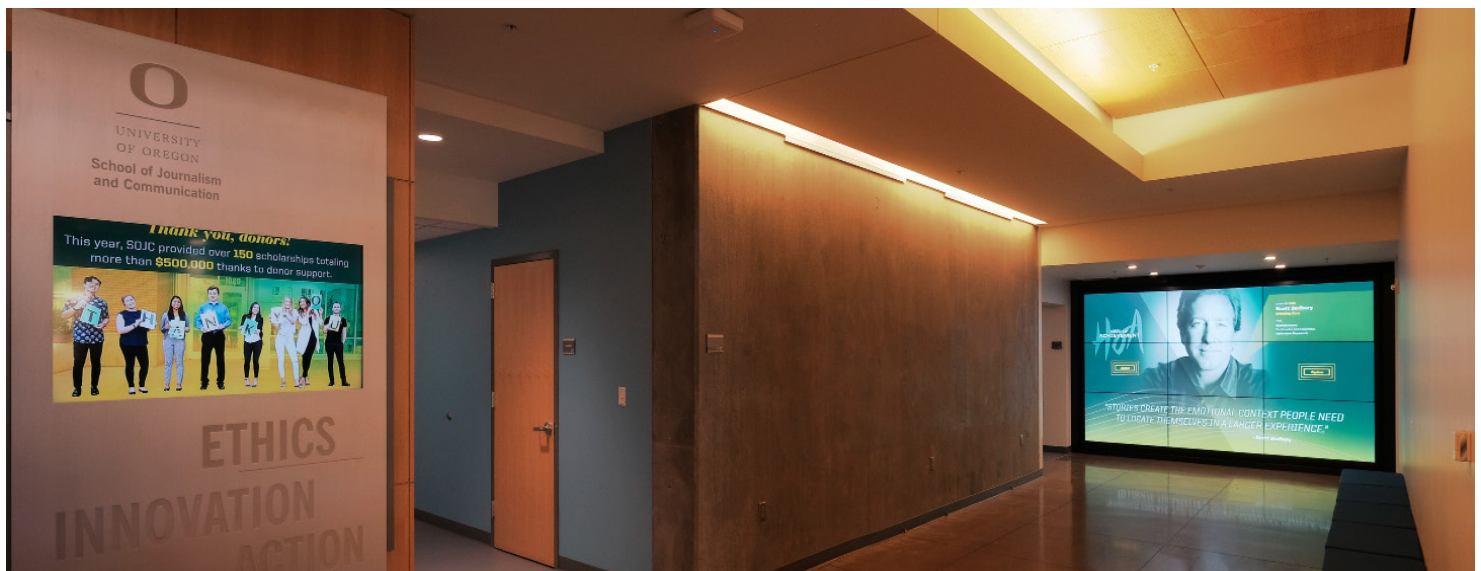


# University Projects

Project Name	University of Oregon Allen Hall Experience Hub
Location	Eugene, Oregon
Size	SF
Year Completed	2019

**Description** ABD Engineering & Design worked closely with PIVOT Architecture, and University of Oregon staff on the Allen Hall Experience Hub renovation. The facility is shared by different groups including: the School of Journalism and Communications, immersive media, games development, psychology and counseling, and traditional media faculty. The school demonstrated the need to replace the existing traditional broadcast studios with spaces for new and emerging media. ABD provided complete acoustical engineering, audiovisual design, and AV infrastructure design.

Tech-spaces included new broadcast suites, control room, podcast, digital media editing in conjunction with surround audio mixing, and a social media lab with real-time analytics monitoring, as well as host UC/web-conferencing and streaming applications on a large video-wall. Virtual Reality and Augmented Reality share space with collaborative games development. Common-area upgrades included the replacement of existing lobby signage, as well as a new wall-sized interactive display system to showcase significant alumni and donors.



# Performing Arts School

Project Name **Interlochen Center for the Arts Music Center**

Location Interlochen, Michigan

Project Size & Cost 65,000 SF, \$24 million

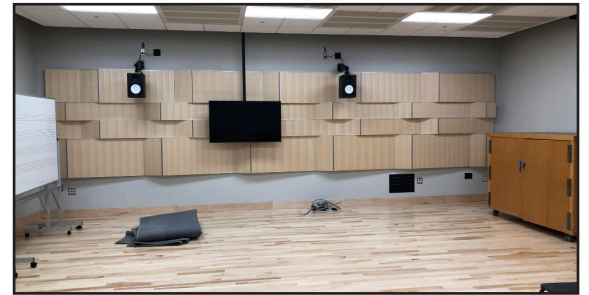
Year Completed 2019

Description ABD Engineering & Design worked with Cornerstone Architects to develop complete acoustical recommendations for the state-of-the-art Music Center.

The Music Center includes a variety of acoustically critical listening spaces: teaching studios, practice and ensemble rooms, recording studios and rehearsal spaces. Recommendations for reverberation time, isolation, and background noise extended into classrooms, and offices.

"The new Music Center provides the opportunity to incorporate 21st century expectations into our already rich music curriculum. ... Music students will have even greater success and Interlochen as a whole will be able to expand offerings and enhance the curriculum."

- Camille Colatosti, Provost, Interlochen Center for the Arts



# University Projects

Project Name	Grand Rapids Community College Albert P. Smith Music Center and Linn Maxwell Keller Performance Hall
Location	Grand Rapids, Michigan
Year Completed	2017
Description	<p>The original building was constructed in 1922 and served as a physical education facility for Strong Junior High School, and then Grand Rapids Junior College. It was first renovated for use by the Music Department in 1980. This latest renovation includes a new 100-seat performance space (The Linn Maxwell Keller Performance Hall) with flexible seating and stage, recording studio, private studios, teaching studios, practice rooms, classrooms, and an informal gathering and study area.</p> <p>ABD Engineering &amp; Design worked with AECOM to provide complete acoustical analysis of existing spaces marked for re-use and a variety of new spaces. The design required engineered recommendations for Room Acoustics, Noise Isolation, and Mechanical Noise Control specifically tuned for performance, and teaching. Our consultants created designs to handle the demanding acoustical needs of spaces that would be in constant flux – changing from one use to another throughout the day, and throughout the year.</p>



# K-12 Projects

Project Name **Detroit Institute of Music Education (DIME)**

Architect Neumann/Smith Architecture

Cost \$7,000,000

Year Completed 2014

Description British music industry veterans Kevin Nixon, Sarah Clayman, and Bruce Dickinson founded the first of these modern music education schools in England, and expanded to Detroit. The 1897 historic Bamlett building now houses the new DIME campus in the heart of downtown Detroit's Capitol Park. Special attention was needed to preserve the original architectural character of the building, including its arched corridors, memorable curved brick, and stone façade.

Neumann/Smith Architecture brought ABD Engineering & Design into the project to provide complete acoustical consulting services. All six floors of the building had experienced decay and no longer met city building codes. Previous offices were transformed into classrooms, music practice studios, and a 300-seat live music venue for weekly concerts. Along with special considerations for room acoustics, additional sound insulation was required between each floor due to the nature of DIME's music business. The special entertainment and acoustic needs of the school required an elaborate material installation, and the latest and most effective noise control materials available on the market today.



# University Projects

Project Name **Hope College, Martha Miller Center for Global Communications**

Location Holland, Michigan

Project Size 49,000 SF, \$12 Million

Description ABD Engineering & Design made comprehensive recommendations for architectural acoustics, HVAC noise control, and noise isolation. The facility provides a centralized location for radio, television and newspaper productions, and it also serves as a classroom facility for instruction of communications, foreign language and international studies. Along with faculty offices, four classrooms, a 90-person auditorium, language and computer labs, television and radio stations with editing suites and a newspaper production facility are provided.



Of particular concern at this facility was the location of a railroad track just a short distance away. In addition, a nearby level crossing meant that the train whistle could impact noise levels inside the television and radio studios and edit suites. A "room within a room" design created a facility that is host for the award winning Children's Television program "Come On Over". The show has won numerous Michigan Emmy awards!



# University Projects

Project Name **Western Michigan University  
WMUK Radio**

Location Kalamazoo, Michigan

Architect Kingscott Architects

Description The Yoshimi Takeda Performance Studio at WMUK is used to broadcast quality recordings of the Kalamazoo Symphony Orchestra, Fontana Chamber Arts, the Gilmore, and visiting artists. In addition, the studio is capable of multi-track digital recordings in an intimate, acoustically-tunable environment designed for the comfort and creativity of performing artists. ABD was the acoustical consultant for room acoustics, noise isolation, and building systems noise control.





Melinda Miller brings her passion for all things sound and 20 years of experience to her role as Principal Engineer of ABD Engineering & Design. Her expertise includes diagnosing and preventing noise problems, designing acoustically optimized environments, and using evidence-based design practices. Melinda has consulted on projects involving architectural acoustics, noise isolation, mechanical noise control, and occupational noise exposure. Her experience includes higher education, K-12 schools, performance and worship spaces, healthcare facilities, industrial facilities, hotel and multi-family residential buildings.

A Professional Acoustical Engineer, licensed by the State of Oregon, Melinda earned her Bachelor's Degree in Mechanical Engineering from the University of Idaho, and Master's from the University of Illinois, Chicago. She has continued her education and training, earning her INCE Board Certification (INCE Bd. Cert.), Evidence-Based Design Accreditation and Certification (EDAC), and LEED AP BD+ C. As an Assistant Professor of Acoustics for Columbia College, she taught undergraduate junior and senior level classes in HVAC design, vibrations, acoustical testing, building noise control, and musical acoustics.

Melinda has chaired sessions on various topics at Noise-con and Inter-noise since 2013, and has served INCE as the Co-Chair of Building Acoustics Technical Activities committee, on the Certification Board since 2018, and the Board of Directors (2021-2024). Likewise, she has presented technical papers and education sessions for the Acoustical Society of America, the American Institute of Architects, and the Chicago Chapter of the Audio Engineering Society.

## Professional Experience

- 2011-Present – Principal Engineer, ABD Engineering & Design, Inc., Portland, Oregon
- 2006-2009 – Acoustical Consultant, Listen Acoustics, Inc., Portland, Oregon
- 2003-2005 – Assistant Professor, Audio Arts and Acoustics Department, Columbia College Chicago, Chicago, IL
- 2001-2003 – Graduate Assistant, Acoustics and Vibrations Laboratory, Department of Mechanical & Industrial Engineering, University of Illinois Chicago, Chicago, Illinois

## Professional Licenses and Memberships

- Acoustical Society of America
- Evidence-Based Design Accreditation and Certification (EDAC)
- Institute of Noise Control Engineering (INCE), Board-Certified Member
- Institute of Noise Control Engineering (INCE), Certification Board, and Board of Directors
- National Council of Acoustical Consultants
- State of Oregon, Professional Engineer, #88158PE
- U.S. Green Building Council LEED AP BD+C

## Education

- Master of Science in Mechanical Engineering, University of Illinois at Chicago, Chicago, Illinois, 2003
- Bachelor of Science in Mechanical Engineering, University of Idaho, Moscow, Idaho, 1998.

## Project Experience

- |  |   |   |
|--|---|---|
| • Linfield College, Murdock-Graf, McMinnville, OR        | • Portland Community College, Cascade Campus, Public Service Education Building, Portland, OR | • Oregon State University, Fairbanks Hall Renovation, Corvallis, OR |
| • Schirle Elementary School, Salem, OR                   | • Tillamook High School, Auditorium, Tillamook, OR  | • Mayo Clinic, Behavioral Health, Albert Lea, MN                    |
| • 1122 SE Hawthorne, Residential Mixed Use, Portland, OR | • Oregon Humane Society, Portland, OR   | • University of Oregon, Autzen Stadium, Eugene, OR                  |
| • German Village, Residential Mixed Use, Columbus, OH    | • Wenaha Baker Schools, Theater, Baker City, OR   |   |
| • Victory Charter School, Performing Arts, Nampa, ID     | • PDX Power Punch, Title Boxing Fitness, Portland, OR   |   |
| • Sprague High School, Salem, OR                         |   |   |



Erik J Geiger has designed and consulted on audio, video, and technical systems for over 20 years. He has served as an Audiovisual discipline leader and project manager, and carries a wealth of technical system consulting and design experience. Erik brings the heart of a teacher to every project, helping clients and end-users to understand a rapidly changing environment — having held a position at Columbia College, Chicago for many years.

Erik specializes in planning, budgeting and needs analysis studies for audiovisual and media technology-based systems, with a focus on facilities and infrastructure planning to provide life cycle value and long-term cost savings through accommodating future technologies, some of which may only be emergent.

Erik has designed large scale facility-wide audio, video and media distribution systems, leveraging IT network topologies and convergence, as well as high performance sound-reinforcement and large-scale video display systems, recording and media post-production facilities. He has designed interactive and collaborative communications environments, that both augment and move beyond the traditional audio and video conferencing space. He has worked on projects in healthcare, university, K-12 education, and corporate environments, along with auditoriums, convention centers and hospitality venues around the world.

When Erik isn't designing technical systems, he enjoys playing the piano, backpacking, cycling, and photography.

## Professional Experience

- 2016-Present – Director of Audiovisual, ABD Engineering & Design, Inc., Portland, Oregon
- 2011-2016 – Senior Associate, Shen, Milsom & Wilke, LLC – Chicago, Illinois
- 2007-2014 – Adjunct Professor, Audio Arts & Acoustics, Columbia College – Chicago, Illinois
- 2009-2011 – Owner, Geiger Design Consultants – Chicago, Illinois
- 2004-2009 – Associate, Shen, Milsom & Wilke, LLC – Chicago, Illinois
- 1998-2004 – Arnold & O'Sheridan, Inc. – Madison, Wisconsin
- 1995-1998 – Hammel Green & Abrahamson, Inc. – Minneapolis, Minnesota

## Professional Certifications and Memberships

- AVIXA (InfoComm International), Certified Technical Specialist
- CTS-D
- AVIXA (Infocomm) Infrastructure Standards working group

## Education

- Mass Communications, University Of Wisconsin – Madison, Wisconsin
- Audio Recording and Production, Musicians Technical Training Institute – Minneapolis, Minnesota.

## Project Experience

- |   |   |  |
|---|---|--|
| • Portland Community College, Cascade Campus, Public Service Education Building, Portland, OR | • Moreland Presbyterian Church, Sanctuary, Portland, OR                                 | • University of Montana, Early Childhood Education Center, Missoula, MT                |
| • Oregon State University, Fairbanks Hall, Corvallis, OR                                      | • Port of Vancouver, Commission Room, Vancouver, WA                                     | • Muskegon Community College, Arts and Humanities, Theater Music and Art, Muskegon, MI |
| • North Eugene High School, Eugene, OR  | • Clackamas Community College, Barlow Hall, Automotive, Oregon City, OR                 | • South Christian High School, Grand Rapids, MI  |
| • City of Ukiah, Council Chambers, Ukiah, CA  | • The University of Providence, Great Falls, University Center, Great Falls, MT         | • University of Oregon, Autzen Stadium, Eugene, OR                                     |
| • Kaiser Permanente, North Lancaster Medical Office Building, Salem, OR                       | • Central Michigan University, Center for Integrated Health Studies, Mount Pleasant, MI |  |





Peter Allen is a senior acoustical engineer with a Master of Engineering degree in Acoustics and over 20 years of experience in the field of acoustics. Peter has been with ABD Engineering & Design since 2016 and provides consulting services on a wide-range of projects types, including education facilities, healthcare facilities, worship spaces, hotels, and multi-family housing, while also specializing in vibration testing and analysis.

Peter uses an evidence-based, data-driven approach to provide acoustical recommendations to clients. Whenever possible, his recommendations include multiple options to help clients meet their aesthetic and budgetary constraints. He has presented his work at various industry symposia as well as at the annual conference for the

Institute of Noise Control Engineering.

Prior to joining ABD, Peter worked as an acoustical consultant at Daly-Standlee & Associates for eight years, where he learned to apply his skills from a research environment to the field of acoustical consulting. He began his career at Southwest Research Institute (SwRI), where he worked for ten years. There, he managed technical projects in vibration analysis, noise control, and environmental testing for clients in the electric utility, telecommunications, aerospace, automotive, and building industries. He taught technical courses within the organization to further develop the skills of others in the organization.

In 2005, Peter obtained his Master's Degree of Engineering in Acoustics from Pennsylvania State University, and he has used his additional education to focus his efforts on the use of field testing and analysis to solve noise and vibration problems. In his personal time, Peter enjoys climbing, yoga, riding his motorcycle, and SCUBA diving.

## Professional Experience

- 2016-Present – Senior Acoustical Engineer, ABD Engineering & Design, Inc., Portland, Oregon
- 2008-2016 – Senior Acoustical Engineer, Daly-Standlee & Associates, Portland, Oregon
- 1998-2008 – Senior Research Engineer, Southwest Research Institute, San Antonio, Texas

## Professional Licenses and Memberships

- Acoustical Society of America
- Institute of Noise Control Engineering (INCE), Board-Certified Member
- National Council of Acoustical Consultants
- State of Oregon, Professional Engineer #84392PE

## Education

- Master of Engineering in Acoustics, Pennsylvania State University, State College, Pennsylvania, 2005
- Bachelor of Science in Engineering, Electrical Emphasis, Texas Christian University, Fort Worth, Texas, 1998.

## Project Experience

- |   |  |  |
|---|--|--|
| • Beaverton Health & Science School, Beaverton, OR            | • Oswego, OR                                     | • Company, Packaging Area, Valley City, UT                 |
| • Jesuit High School, Portland, OR                            | • Ron Russell Middle School, Portland, OR        | • TriMet, Columbia 10, Portland, OR                        |
| • Kaiser Permanente:<br>-Hybrid Operating Room, Clackamas, OR | • Tukes Valley K-8 School, Battleground, WA      | • St John Fisher School, Gym Noise Isolation, Portland, OR |
| -Salmon Creek MRI, Vancouver, WA                              | • West End Surgical, Beaverton, OR               | • Bendix, Relocation Noise and Vibration, Avon, OH         |
| -North Lancaster MOB, Salem, OR                               | • Yates Pointe Mixed Use Development, Bend, OR   |  |
| -Clackamas Eye Care MRI, Happy Valley, OR                     | • Zoom+, Bridgeport Village Clinic, Portland, OR |  |
| • Lakeridge High School, Lake                                 | • USANA Sciences                                 |  |



Jeremy Bielecki is a Senior Acoustical Consultant with over 20 years of experience as a consultant, and as a project manager for over 300 building projects. Jeremy has worked in acoustics in the Midwest and Pacific Northwest on projects including healthcare, higher education, workplace, performance spaces, K-12 education, athletics, and multi-family residential.

Jeremy possesses a strong work ethic and creative problem solving skills that have served him and his clients well. Knowing he always wanted to be in engineering and involved with music, Jeremy found acoustics to be the marriage of the two. He gains tremendous satisfaction from being part of a project that starts with lines on a screen and words on a page, eventually becoming a physical space you live within, and get enjoyment from.

Over his career, Jeremy has developed expertise in performing field measurements, creating complex computer prediction models, and analyzing data and drawings to identify primary causes and contributors to noise and vibration problems. He also determines sound isolation ratings, HVAC system noise ratings, and room acoustic performance using reverberation time, acoustical clarity, and speech intelligibility metrics.

In his spare time, Jeremy is a skilled piano tuner and repair technician, musician, and coaches soccer and robotics. He also enjoys 3D printing, and cooking with his family.

## Professional Experience

- 2022-Present – Senior Acoustical Consultant, ABD Engineering & Design, Inc., Grand Rapids, Michigan
- 2005-2022 – Acoustical Consultant, Kolano and Saha Engineers, Inc., Waterford, Michigan
- 2001-2004 – Acoustical Engineer, Michael R. Yantis Associates, Inc., Seattle, Washington

## Professional Memberships

- Acoustical Society of America
- Institute of Noise Control Engineering (INCE)
- American Society of Testing and Materials
- National Council of Acoustical Consultants

## Education

- Bachelor of Science in Mechanical Engineering, University of Michigan, Ann Arbor, 2000.

## Project Experience

- |  |  |   |
|--|--|---|
| • Munson Medical Center<br>Traverse City, MI   | • *Michigan State University, East<br>Lansing, MI<br>Broad Art Museum<br>STEM Power Plant Renovation | • *Charles H Wright Museum<br>of African American History,<br>Detroit, MI |
| • *St. John Hospital, Detroit, MI  | • *Henry Ford Community College,<br>Recording Studio, Dearborn, MI                                   | • *Emagine Theaters, Royal Oak,<br>MI                                     |
| • *Detroit Pistons Performance<br>Center, Detroit, MI  | • *Kendall College of Art and<br>Design, Grand Rapids, MI  | • *Residence Inn by Marriott,<br>Grand Rapids, MI                         |
| • *Greektown Casino Hotel,<br>Detroit, MI  | • *Davidson Foundation<br>Development, Bloomfield Hills,<br>MI                                       | • *Bharatiya Temple, Troy, MI   |
| • *University of Michigan, Ann<br>Arbor, MI<br>Law School: Hutchins Hall,<br>Jeffries Hall<br>Student Union<br>Central Campus Recreation<br>Building<br>Beyster Building Addition<br>Munger Student Residences | • Romeo High School, Auditorium,<br>*Romeo, MI   | • *The Mid: Co-Living, Detroit, MI  |
| • *Central Michigan University,<br>Mount Pleasant, MI<br>Grawn Hall<br>Ronan Hall  | • *Byron Center High School,<br>Byron Center, MI   | • *New Beginning Baptist Church,<br>Waterford, MI                         |
|  | • *Ann Arbor School of the<br>Performing Arts, Ann Arbor, MI   | • *Cobo Center, Detroit, MI   |
|  | • *Toyota Technical Center, Quiet<br>Room, Ann Arbor, MI   | • *Patrick V. McNamara Fitness<br>Center, Detroit, MI                     |
|  |  | • *Theodore Levin U.S.<br>Courthouse, Detroit, MI                         |



# Benjamin Wolf

Senior Acoustical Consultant  
INCE Bd. Cert. [bwolf@abdengineering.com](mailto:bwolf@abdengineering.com)



Benjamin Wolf is a Senior Acoustical Consultant with a Master of Science in Architectural Acoustics from Rensselaer Polytechnic Institute. He specializes in analysis and recommendations for the spaces and structures needed to provide acoustically effective and comfortable environments.

Ben joined ABD Engineering & Design, Inc. in 2016 after four years with Daly-Standlee & Associates. He has worked on architectural projects, including field testing of wall and floor/ceiling systems, HVAC noise analysis, the specification and design of acoustic partitions, and acoustical treatments in churches, movie theaters, offices, apartment buildings, hospitals, and schools. His environmental noise studies include mine and quarry sites, light rail, highway and roadway noise, along with power and industrial facilities.

Ben uses 3D acoustic modeling software to provide a detailed analysis and recommendations for room acoustics, sound distribution, and speech intelligibility. As part of his master's thesis, he modeled accurate acoustical representations of several famous music performance venues allowing musicians to hear their performance simulated in those spaces, in real time, as if they were standing on stage.

In his spare time, Ben plays bass trombone with a wide variety of local groups. He enjoys web design and recording live sound.

## Professional Experience

- 2016-Present – Senior Acoustical Consultant, ABD Engineering & Design, Inc., Portland, Oregon
- 2012-2016 – Acoustical Consultant, Daly-Standlee & Associates, Portland, Oregon

## Professional Memberships

- Acoustical Society of America
- ASTM International, E33 Committee on Building and Environmental Acoustics
- Institute of Noise Control Engineering (INCE), Board-Certified Member
- National Council of Acoustical Consultants

## Education

- Master of Science in Architectural Sciences, Emphasis in Architectural Acoustics, Rensselaer Polytechnic Institute, Troy, New York, 2012
- Bachelor of Arts in Physics, Gustavus Adolphus College, St. Peter, Minnesota, 2011
- Bachelor of Arts in Music Performance, Gustavus Adolphus College, St. Peter, Minnesota, 2011.

## Project Experience

- |   |   |   |
|---|---|---|
| • South Cooper Mountain Apartments, Beaverton, OR                             | • Hermiston Schools (Theater Lane Elementary School, Rocky Heights Elementary School, High School Classroom Annex and CTE), Hermiston, OR | • Northwest Pipe Company, Open Office Acoustics, Vancouver, WA          |
| • Wood Village Mixed Use, Wood Village, OR                                    | • Dry Creek Landfill, Noise Study, Eagle Point, OR  | • Columbia Shores Townhouses, Overlay Noise Study, Vancouver, WA        |
| • Farmdale Apartments, North Hollywood, CA                                    | • Kaiser Permanente, Sunnyside Medical Center, Clackamas, OR  | • Wood Village Mixed Use, HUD Noise Study, Wood Village, OR             |
| • L&M Industrial Fabrication, Lot Expansion Barrier Calculations, Tangent, OR | • United Natural Foods, Noise and Vibration Study, Ridgefield, WA   | • Clackamas Federal Credit Union, Corporate Headquarters, Oak Grove, OR |
| • USANA Sciences Company, Packaging Area, Valley City, UT                     | • Threemile Canyon Farms, Generator Exhaust, Boardman, OR   |   |
| • TriMet, Columbia 10, Portland, OR   |   |   |



**ABD Engineering & Design**  
Architectural Acoustics • AV Design • Noise & Vibration



Quincey Smail is a Senior Acoustical Consultant, with a Master of Engineering in acoustics from Penn State. Quincey's expertise includes acoustical design, modeling and testing to provide thoughtful recommendations for a variety of project types from residential and mixed use to K-12, higher education to healthcare, workplace, environmental, and industrial facilities. Quincey earned his Board Certification by the Institute of Noise Control Engineering (INCE) in 2022.

His projects include noise studies of manufacturing equipment in the US and Europe, car wash sites with residential adjacencies, and high-profile commercial locations.

Quincey's musical background has served him and his projects well in performance spaces including the Interlochen Center for the Arts, as well as other public and private music schools, music stores, event centers, plus the particular needs of worship spaces. Quincey is regularly called upon to assist with hotel acoustical needs during design and construction, along with post-occupancy needs. He has also worked with hospitals, hospice, counseling centers, dental offices, and residential healthcare to address FGI and HIPAA requirements.

In his free time, Quincey – a talented baritone – sings in community and church choirs. He can be found enjoying the Grand Rapids local craft-brewery and cocktail culture, trivia nights, and playing tabletop games.

## Professional Experience

- 2016-Present – Senior Acoustical Consultant, ABD Engineering & Design, Inc., Grand Rapids, Michigan
- 2015-2016 – Lead Producer, Penn State University, State College, Pennsylvania
- 2012-2013 – Physics Lab Assistance, Central College Physics Department, Pella, Iowa

## Professional Memberships

- Acoustical Society of America
- American Society of Testing and Materials
- National Council of Acoustical Consultants
- Institute of Noise Control Engineering (INCE), Board-Certified Member
- Boy Scouts of America, Eagle Scout

## Education

- Master of Engineering in Acoustics, Pennsylvania State University, State College, Pennsylvania, 2016
- Bachelor of Arts in Physics, Minors in Mathematics, Music, and German, Central College, Pella, Iowa, 2013.

## Project Experience

- |  |  |   |
|--|--|---|
| • Public Museum, Grand Rapids, MI                                    | • Riverview Church, Auditorium, Holt, MI   | • Forslund Condominium, Impact Isolation, Grand Rapids, MI                            |
| • Courtyard Marriott, Detroit, MI                                    | • 212 River Residential Mixed-Use, Holland, MI                                       | • Domino's Pizza, Boardroom and Warehouse Open Office, Ann Arbor, MI                  |
| • Essity Operations Gennep, Netherlands                              | • Jefferson Lofts Condominium Association, Noise Isolation, St. Joseph, MI           | • Interlochen Center For The Arts, Kresge Amphitheater, Interlochen, MI               |
| • Tri County Area Schools, Cafetorium, Howard City, MI               | • West Ottawa Public Schools, Performing Arts Center, Holland, MI                    | • Grand Valley State University, Product Design and Robotics Studio, Grand Rapids, MI |
| • Nestle Production Studio, Solon, OH                                | • Warner Norcross & Judd, Office Acoustics, Detroit, Grand Rapids, and Kalamazoo, MI | • Ford Motor Company, Conference & Event Center, Dearborn, MI                         |
| • Bendix, Relocation Noise and Vibration, Avon, OH                   | • Tommy Car Wash Systems, Car Wash Noise Study, Hudsonville and Flint, MI            | • Opera Grand Rapids, Grand Rapids, MI  |
| • Western Michigan University, Dunbar Hall, Kalamazoo, MI            |  |   |
| • Western Michigan University, College of Aviation, Battle Creek, MI |  |   |





Iva Handley is a graduate of Rosenheim University of Applied Sciences in Germany, where she earned her bachelor's degree in engineering, with a focus on interior engineering.

Iva has since worked as an engineer in the building design field, both in Germany, and in the US. She is experienced in acoustical measurements of airborne sound, impact noise, equipment, construction, and traffic noise, as well as building enclosures and field reviews. She also brings a background in carpentry and metal work to her projects.

When Iva isn't out taking acoustical measurements, building acoustical room models, or writing engineering reports, you might find her brewing her own beer.

## Professional Experience

- 2019-Present – Acoustical Consultant, ABD Engineering & Design, Inc., Portland, Oregon
- 2018-2019 – Building Science Engineer, EIT, RDH Building Science, Inc., Portland, Oregon
- 2015-2016 – Project Engineer, ig-bauphysik GmbH & Co. KG, Hohenbrunn, Germany

## Education

- Bachelors of Engineering: Interior Engineering, FH Rosenheim: University of Applied Sciences (Germany), 2017
- Study Abroad Program, École Supérieure du Bois: Research Wood Science and Technology (France), 2014

## Professional Certifications

- EIT Certification for Civil Engineering and Land Surveying in the State of Oregon

## Professional Memberships

- Acoustical Society of America
- Institute of Noise Control Engineering (INCE)
- American Society of Testing and Materials
- National Council of Acoustical Consultants

## Project Experience

- |   |   |   |
|---|---|---|
| • Zoom+, Bridgeport Village Clinic, Portland, OR  | • Chiller Noise Control, Portland, OR   | • Oregon State University Cascades, AB2 STEM Building, Bend, OR         |
| • Hillsboro School District, Mooberry Elementary School, Chiller Noise, Hillsboro, OR   | • Oregon Humane Society, Portland, OR   | • Silco Site Apartments, Portland, OR                                   |
| • Godfrey Detroit Hotel, Detroit, MI  | • Kaiser Permanente, Sunnyside Medical Center, Clackamas, OR                            | • Kaiser Permanente, North Lancaster Medical Office Building, Salem, OR |
| • Schirle Elementary School, Salem, OR  | • United Natural Foods, Noise and Vibration Study, Ridgefield, WA                       | • University of Portland, Innovation Center, Portland, OR               |
| • Treasury Resiliency Building, Salem, OR   | • Sprague High School, Salem, OR  | • Salem-Keizer Public Schools, South Salem High School, Salem, OR       |
| • Victory Charter School, Performing Arts Center, Nampa, ID   | • Northwest Pipe Company, Open Office Acoustics, Vancouver, WA                          | • Scioto Peninsula Apartments, Columbus, OH                             |
| • Hermiston Schools (Theater Lane Elementary School, Rocky Heights Elementary School, High School Classroom Annex and CTE), Hermiston, OR | • Legacy Health, Emanuel Medical Center and Progressive Cardiac Care Unit, Portland, OR |   |
|   | • Casino Road Office Building, Everett, WA  |   |





John Kramer is an acoustical consultant, with a Master of Architectural Engineering from University of Nebraska, Lincoln. John's passion for music and performing arts led to his interest in acoustics and helping to create efficient, comfortable, and healthy acoustical environments. John leverages his experience in acoustics and building systems with an applied background in noise and vibration control in his project work.

John has excelled with both professional and student design teams, including a 1st place finish in the 2020 ASHRAE Student Design Competition (System Selection). He has designed mechanical systems on projects including secure government facilities, corporate headquarters, large scale healthcare, and education. Since joining ABD, John has begun working on projects across the country from wind turbine noise studies to residential acoustics. John is building his experience with acoustically sensitive spaces including: Healthcare, K-12 Schools, Churches, Corporate Offices, and Social Halls, and is quickly developing as a consultant.

In John's spare time he enjoys playing guitar and singing, playing chess, collecting comic books, and is learning his way around West Michigan.

## Professional Experience

- 2021-Present – Acoustical Consultant, ABD Engineering & Design, Inc., Grand Rapids, Michigan
- 2019-2021 – Mechanical Engineering Intern, HDR, Omaha, Nebraska

## Professional Memberships

- Acoustical Society of America
- Institute of Noise Control Engineering (INCE)
- American Society of Testing and Materials
- National Council of Acoustical Consultants

## Education

- Master of Architectural Engineering, University of Nebraska, Lincoln, NE, 2021.
- Bachelor of Science of Architectural Engineering, University of Nebraska, Lincoln, NE, 2020.

## Project Experience

- Oregon State University  
Fairbanks Hall  
Corvallis, OR
- Minot State University  
Hartnett Hall  
Minot, ND
- Sinclair Community College  
Distance Learning  
Dayton, OH
- Grand Rapids Community College Secchia Institute for Culinary Education  
Grand Rapids, MI
- Oregon Health and Science University Dispatch  
Portland, OR
- Corewell Health Ambulatory  
Grand Rapids, MI
- PeaceHealth Riverbend  
Springfield, OR
- Portland Providence Medical Center Main Emergency Department  
Portland, OR
- Interlochen Center for the Arts  
Interlochen, MI
- Jackson Hole Classical Academy  
New High School  
Jackson Hole, WY
- Hudsonville Christian School  
Hudsonville, MI
- Wheaton Academy  
West Chicago, IL
- Kellogg's Headquarters  
Battle Creek, MI
- LinkedIn Detroit  
Detroit, MI
- Disability Advocates of Kent County  
Grand Rapids, MI
- Wolverine Worldwide Broadcast Studio  
Rockford, MI
- Cannon Muskegon Noise Study  
Muskegon, MI
- Grand Rapids Public Museum  
Grand Rapids, MI
- Southtown Guitar  
Grand Rapids, MI



Faulkner Bodbyl-Mast is an audiovisual and acoustical consultant, having earned a bachelor's degree in Sound Engineering, with a minor in Electrical Engineering. Faulkner is an AVIXA Certified Technical Specialist (CTS). You might work with him in either or both capacities at ABD.

Faulkner's interest in sound came from his passion for music. He started attending Grand Rapids Symphony Orchestra concerts as a child and developed as an instrumentalist through grade school and high school, picking up the euphonium and carrying it into college. Once exposed to electronic music, Faulkner's interest shifted from performance to technical arts. He combined his early musical training with technology and blossomed into composing, recording, and music production. Faulkner provided sound design for live theater productions and began 3D sound modeling to

create sound design for video games.

Acoustics and AV go together, as the inherent quality of the built environment is designed and tuned by engineering and supported and enhanced by the electronics. Faulkner notes the acoustics of a space and systems within it must compliment each other or they will undermine each other.

Aside from his work in acoustics and audiovisual design, Faulkner is passionate about music. Gifted in composing, performing, and recording electronic pieces, you might find his compositions on SoundCloud.

## Professional Experience

- 2022-Present – Audiovisual & Acoustical Consultant, ABD Engineering & Design, Inc., Grand Rapids, Michigan
- 2022 - Acoustical Intern, Kirkegaard, Chicago, Illinois
- 2019-2022 – Media Assistant, Duderstadt Center, Ann Arbor, Michigan
- 2019-2022 – Audio Director, Composer, Sound Designer, Wolverine Soft Studio, Ann Arbor, Michigan

## Professional Memberships and Certifications

- AVIXA (InfoComm International), Certified Technical Specialist
- CTS
- Audio Engineering Society
- American Institute of Architects, Professional Affiliate
- National Council of Acoustical Consultants

## Education

- Bachelor of Science in Sound Engineering, minor Electrical Engineering, University of Michigan, Ann Arbor, 2022.

## Project Experience

- |   |   |   |
|---|---|---|
| • Hope College<br>Dewitt Center for Economics and Business, Holland, MI | • City of Troy Council Chambers<br>Troy, MI                             | • Amity Middle School and High School<br>Amity, OR                    |
| • Oregon State University<br>Fairbanks Hall<br>Corvallis, OR            | • Portland Art Museum Rothko Pavilion, Portland, OR                     | • Spokane Pubic Schools<br>Lewis and Clark High School<br>Spokane, WA |
| • Oregon State University<br>Student Success Center<br>Corvallis, OR    | • Rogue Credit Union Community Complex Sports and Events<br>Medford, OR | • NAMI Oregon<br>Portland, OR   |
| • Columbia Gorge Community College Nursing SIM Lab<br>The Dalles, OR    | • Wheaton Academy<br>West Chicago, IL                                   | • Peace Church<br>Middleville, MI                                     |
| • Hillsboro Civic Center<br>Hillsboro, OR                               | • St Paul Center<br>Steubenville, OH                                    | • Gardens of Sun City Senior Living, Sun City, AZ                     |
| • Chehalem Cultural Center<br>Newberg, OR                               | • Ben Davis High School<br>Indianapolis IN                              | • Senior Living<br>Peoria AZ  |
|   | • Potter Elementary School<br>Flint, MI                                 | • Happy Valley Library<br>Happy Valley, OR                            |
|   | • Illiana Christian High School<br>Lansing, IL                          |   |



Lauren Slattery is an acoustical consultant newly located in Portland, OR. She is a graduate of Belmont University where she earned her bachelor's of science degree in Audio Engineering Technology, with a Physics minor.

Lauren comes to ABD Engineering & Design directly from her internships at NASA Ames Research Center and NASA Marshall Space Flight Center, where she performed acoustical testing and assisted with acoustical aspects of aircraft, satellites, engines, and their components. Lauren is building her architectural acoustical experience through mentoring with ABD staff. She is proving to be a quick study and is taking on her own project work.

Lauren describes herself as outdoorsy and enjoys hiking, climbing, and kayaking. She loves road trips and travel, reading, and baking - especially pastries.

## Professional Experience

- 2024-Present – Acoustical Consultant, ABD Engineering & Design, Inc., Portland, Oregon
- 2024 – Acoustic Support Intern, NASA Ames Research Center, Mountain View, California
- 2023-2024 – Acoustic Test Support Intern, NASA Marshall Space Flight Center, Huntsville, Alabama
- 2021-2024 – Audiovisual Technician, Columbus Zoo and Aquarium, Columbus, Ohio
- 2022 – School of Music Audio Crew, RF Technician, Stagehand, Belmont University, Nashville, Tennessee

## Education

- Bachelors of Science: Audio Engineering Technology, Physics Minor: Belmont University, Nashville, TN, 2023

## Professional Certifications

- ProTools User Certified
- Dante Certification 3

## Professional Memberships

- Audio Engineering Society
- Women in Audio
- Acoustical Society of America
- Institute of Noise Control Engineering (INCE)
- American Society of Testing and Materials
- National Council of Acoustical Consultants

## Project Experience

- |  |   |   |
|--|---|---|
| • Oregon State University<br>Corvallis, Magruder Hall,<br>Corvallis, OR                      | • Colonia de Valle Prospero,<br>Affordable Housing,<br>Albany, OR                                 | • Wind Tunnel Acoustic Data<br>Processing,<br>Mountainview, CA  |
| • Sous La Rose Social Club and<br>Event Space,<br>Portland, OR                               | • RogueX Credit Union Community<br>Complex, Aquatics, Sports, and<br>Events Center<br>Medford, OR | • Ocean Way Recording Studios,<br>Final Recording Project for<br>Studio Recording II<br>Nashville, TN |
| • Micronesian Islander<br>Community's Voyagers' Village,<br>Affordable Housing,<br>Salem, OR | • Acoustic Test Stand Design,<br>Mountainview, CA   | • Foley and ADR group recording<br>project<br>Nashville, TN   |

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