



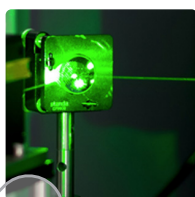
# ABD Engineering & Design

Architectural Acoustics ▪ AV Design ▪ Noise & Vibration

## Statement of Qualifications

*Courthouse-Government*

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

# Courthouse-Government

Selected Experience



## **Ada Township Parks**

Meeting Room Acoustics  
Ada, MI

## **Bonneville Power Administration**

Office Clearstory Acoustics  
Vancouver, WA

## **City of East Grand Rapids**

Community Center  
East Grand Rapids, MI

## **City of Elkhart**

Noise Study  
Elkhart, IN

## **City of Kalamazoo**

Station 31  
Kalamazoo, MI

## **City of Novi**

Noise Study  
Novi, MI

## **City of West Allis**

Noise Study  
West Allis, WI

## **City of Ukiah**

Civic Center Council Chambers  
AV Design  
Ukiah, CA

## **City of Cleveland**

Police Headquarters  
Cleveland, OH

## **Huron County Board of Commissioners**

Wind Turbine Noise Ordinance Consulting  
Bad Axe, MI

## **Independence Township Michigan**

Environmental Noise Study  
Clarkston, MI

## **Kent County Courthouse**

Grand Rapids, MI

## **Thomas D Lambros Federal Building**

Youngstown, OH

## **Lincoln Township Library**

Stevensville, MI

## **Mark Hatfield U.S. Courthouse**

Conference Room Acoustics  
Conference Room AV  
Portland, OR

## **Mark Hatfield U.S. Courthouse**

Library Acoustics  
Portland, OR

## **Mark Hatfield U.S. Courthouse**

Noise Isolation  
Portland, OR

## **Mountain Home Air Force Base**

Gymnasium Acoustics  
Mountain Home, ID

## **Patrick V. McNamara Federal Building**

Mechanical Noise Control and Testing  
Milton Township Hall  
Niles, MI

## **Oregon State Treasury**

Resilient Office Building  
Salem, OR

## **Port of Vancouver**

Commission Room  
Vancouver, WA

## **Shaw Air Force Base**

Operations Building  
Shaw AFB, SC

## **Social Security Administration**

Lloyd Center  
Portland, OR

## **Tuscola County**

Noise Ordinance Language  
Tuscola County, MI

## **US Air Force**

Offutt Air Force Base  
Fairchild Air Force Base  
Shaw Air Force Base  
Mountain Home Air Force Base

## **US Bankruptcy Court**

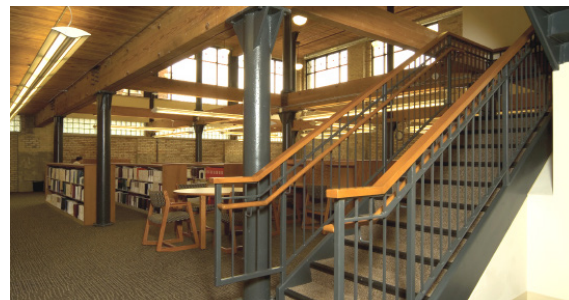
Grand Rapids, MI

## **US District Court**

Technical Library  
Saratoga Springs, UT

## **Virginia M. Tutt Branch Public Library**

South Bend, IN

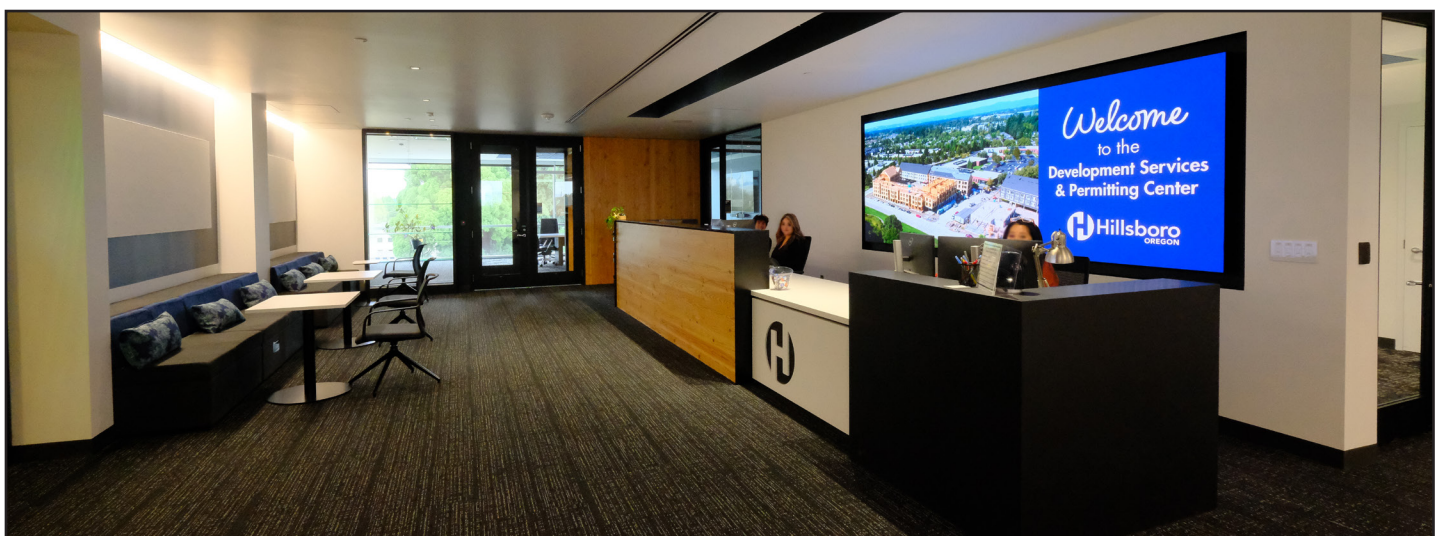


This listing represents portions of the collective experience of the ABD Engineering & Design Staff.

# Civic Center

Project Name	<b>Hillsboro Civic Center Development Services &amp; Permitting Center</b>
Architect	SRG Partnership
Location	Hillsboro, Oregon
Year Completed	2023
Size	21,000 SF
Description	ABD Engineering & Design worked with SRG Partnership to help create an inviting Development Services & Permitting Center right off the Hillsboro Civic Center main lobby 4th floor entrance. It's a hub of activity where multiple departments engage with a variety of visitors from the business and residential communities.

ABD's acoustics recommendations included wall-types to address noise isolation and room acoustics details for finishes, square footage, and locations. Our AV designs addressed the infrastructure and systems for the large video wall behind the main desk, and multiple conference rooms (8-24 persons) all supporting MS Teams with identical functionality. While the City had previously standardized on Logi hardware, these spaces required better audio performance and coverage beyond Logi's capabilities. So, ABD worked with the City to develop an updated standard.





# City Commission Project

Project Name **Port of Vancouver Commission Room**

Location Vancouver, WA

Size/Budget 1,600 SF, \$150,000

Description The Port of Vancouver felt stuck and hamstrung in the Commission Room by a 20 year-old AV systems but needed to stay connected to the City of Vancouver TV public access. ABD Engineering & Design's Audiovisual Designers brought the new design to life with elements like a 98" flat-panel display to replace the old rear-projection screen. Everything was ready to go when the COVID-19 quarantine hit. ABD was able to help navigate the construction process with the Port and contractors.

The control system needed to provide a simple user-interface so anyone from the Commission Secretary to board members could easily use the new AV setup for anything from Commission meetings to staff and public meetings. ABD made sure each had a custom UI for their specific needs with a "setup state capture" feature with up one-touch access to five types of meetings in each category. A single button recalled room microphones, wireless mics, and sources.

Along with a simplified user-experience, ABD provided recording, streaming, and web conferencing while passing auto-mixed audio feeds to the CVTV, minimizing the public-access operations during events. Our designers were able to maximize the use of all existing infrastructure, minimizing demolition before installation by the AV sales and installation contractor pre-vetted by ABD.



# Animal Welfare

Project Name **Oregon Humane Society Hospital, Behavior Rehabilitation and Rescue Center**

Architect Scott Edwards Architecture

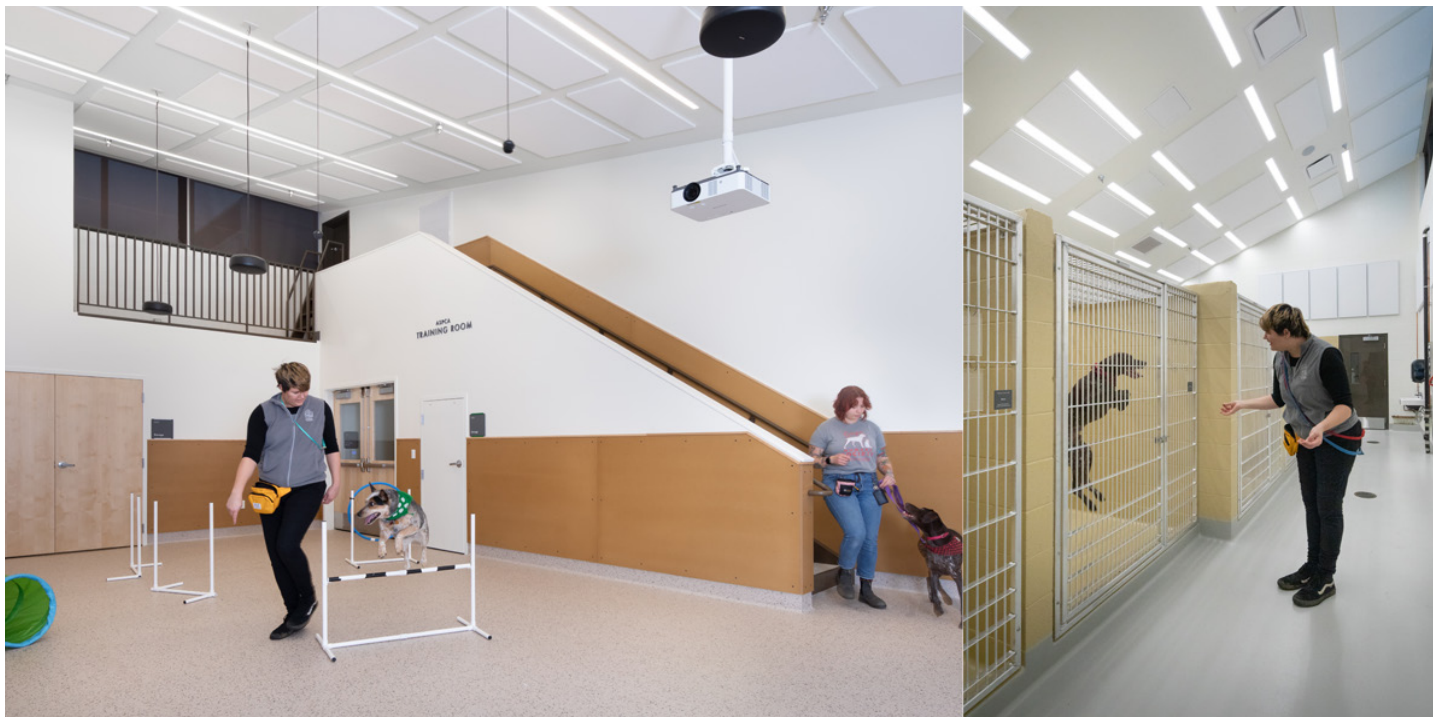
Location Portland, Oregon

Year Completed 2022  
Size 71,000 SF

Description ABD Engineering & Design provided acoustical consulting for the Society's (OHS) Portland campus, especially important for animals in the spaces throughout the buildings, from the waiting lobby, to exam rooms, to recreational areas.

ABD worked with Scott Edwards Architecture on several aspects and phases. Two buildings were added to the existing shelter to provide the Community Veterinary Hospital and Animal Crimes Forensics Center, along with a Behavior Modification and Rescue Center.

ABD focused on three services across the facility. First, room acoustics to reduce the echo and help control the noise levels, especially for the more sensitive animals in the BMRC. Mechanical noise control helped to reduce the background sound levels. And, noise isolation to help separate the spaces from each other and make adjacencies easier on the animals and their human helpers. Careful attention to these needs was given for the purposes of providing greater comfort in what can be a traumatic environment.



Photos by Cheryl McIntosh, Quanta Collectiv



# Resilient Office Building

Project Name **Oregon State Treasury**

Architect GBD Architects Inc.

Location Salem, Oregon

Year Completed 2022  
Size 35,000 SF

Description ABD Engineering & Design worked with GBD Architects on the Oregon State Treasury Office Building. The two-story building is located in the Cascadia Subduction Zone, an earthquake epicenter. As part of its emergency planning, the OST required that its new workplace be built to continue operating after a variety of emergency scenarios. As a result, it is the first USRC base isolated structure in the United States. The project included certifications for United States Resiliency Council (USRC) Platinum, LEED Gold, and International Living Future Institute (ILFI) Net Zero Energy Certification.

ABD's acoustical consulting services included recommendations for the building envelope to address the effects of exterior noise. Our interior recommendations for room acoustics employed a perforated acoustical deck and a variety of other treatment materials. We also consulted on noise isolation and mechanical noise control, plus casing radiated noise and vibration control design of mechanical systems.



Interior photos by Josh Partee

# Civic Center Project

Project Name **City of Ukiah Civic Center Council Chambers**

Location Ukiah, CA

Budget \$279,000

Description ABD Engineering & Design worked with the City of Ukiah, California to update and replace the Audiovisual system in the City of Ukiah Civic Center Council Chambers.

The updated council chambers must handle the city council and city commission meetings, but also serve as a meeting space for various other community meetings and events. Most notably, an annual documentary film festival will use the room for their needs.

ABD's infrastructure designs combined a single-wire conferencing mic system, wireless and USB with AV-over-IP to maximize the amount of audio, video, and control signals through the existing pathways. Meanwhile, mounting locations were selected to minimize the appearance of surface mounted equipment and avoid interference with the decorative ceiling and lighting. The new infrastructure includes planning for future services such as real time speech-to-text transcription and real time simultaneous interpretation that may be added with minimal impact to the existing systems.

The City of Ukiah got a great new room providing the necessary connectivity for official record keeping, community engagement, effective legible and intelligible in-room and web-based participation, and flexibility that should grow and adapt to support their needs for the next 15-20 years.





# Court Project

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Project Name **U.S. Bankruptcy Court**

Location Grand Rapids, MI

Description ABD Engineering & Design was retained to offer recommendations for interior room acoustics, noise isolation, and building systems noise control for the U.S. Bankruptcy Court in Grand Rapids, Michigan. GSA guidelines require that stringent acoustical criteria be met in every courtroom, jury room, and confidential conference room. Our professional engineers modeled every space, carefully reviewed each wall and door type, and analyzed every piece of HVAC equipment. Specifications were given for construction features that would effectively isolate adjacent rooms and eliminate crosstalk. Our final report helped to increase the acoustical performance, noise isolation, and sustainability of the courtroom.



# Court Project

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Project Name    **Kent County Courthouse**

Location        Grand Rapids, Michigan

Size and Cost    323,600 SF, \$46.5 Million

Description    After the Kent County Courthouse was commissioned, it was obvious that noise levels coming from the mechanical rooms were a problem. Unacceptable levels of noise and vibration were emitting from the loud chillers and steam pipe system into the courtrooms above and below. And since the facility was already in use, a solution was needed quickly. ABD Engineering & Design was brought in to take measurements of background noise levels as well as mechanical system noise from the centrifugal and absorption chillers, as well as the steam prv station. The data indicated several problems with structure-borne and air-borne noise issues. A detailed analysis was made and recommendations were given for noise isolation and mechanical noise control. Our professional engineers developed a final report that was both solvent and cost effective for bringing the noise problems to an end. Case closed!







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

- |   |   |   |
|---|---|---|
| • Cleveland Police Headquarters, Cleveland, OH                | • Sunriver Owners Association, Noise Study, Sunriver, OR    | • Geauga County Courthouse, Chardon, OH                   |
| • Hillsboro Police Department, Hillsboro, OR                  | • Bellevue Dev., Bellevue, WA                               | • City of Ukiah, Civic Center Council Chambers, Ukiah, CA |
| • Portland Council Chambers, Portland, OR                     | • City of Bend, Outback Water Filtration Facility, Bend, OR | • City of Troy Council Chambers, Troy, MI                 |
| • BPA Ross Complex, Vancouver, WA                             | • Mark Hatfield Courthouse, Portland, OR                    | • St. Joe County Courts, Centerville, MI                  |
| • Tulatin Soil and Water Conservation District, Hillsboro, OR | • Muskegon Central Dispatch, Muskegon, MI                   | • Mackinac Circuit Court, St. Ignace, MI                  |
|   | • Patrick V. McNamara Federal Building, Detroit, MI         |   |





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

- |   |   |  |
|---|---|--|
| • Port of Vancouver, Commission Room, Vancouver, WA   | • California State University Channel Islands, Classroom AV Assessment and Standardization, Camarillo, CA | • University of Montana, Early Childhood Education Center, Missoula, MT                |
| • City of Ukiah, Civic Center Council Chambers, Ukiah, CA                                     | • The University of Providence Great Falls, University Center, Great Falls, MT                            | • Muskegon Community College, Arts and Humanities, Theater Music and Art, Muskegon, MI |
| • City of Troy Council Chambers, Troy, MI   | • Central Michigan University, Center for Integrated Health Studies, Mount Pleasant, MI                   | • University of Oregon, Autzen Stadium, Eugene, OR                                     |
| • Portland Art Museum, Rothko Pavilion, Portland, OR  |   |  |
| • Portland Community College, Cascade Campus, Public Service Education Building, Portland, OR |   |  |





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            | • Lakeridge High School, Lake Oswego, OR         | • USANA Sciences 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 |  |



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                         |

\*Some project experience is prior to employment at ABD



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

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