

Architectural Acoustics • AV Design • Noise & Vibration

## Performance Venues

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 = 7 Audiovisual = 2 Leadership/Admin = 2

### Contacts

**Principal Engineer:** Melinda Miller, PE mmiller@abdengineering.com **Contracts/Billing:** Marci Boks, COO mboks@abdengineering.com **New Projects:** Brian Atkinson, 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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### Enhancing the Performance Environment

# Acoustical Engineering and Audiovisual Design



Critical to any performing environment is a fluid marriage between acoustics and technology, so every seat in the house is a great seat. 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 an extraordinary experience for the audience. Performing Arts Centers, Theatres, Auditoriums, and Cinemas all require spaces that maximize acoustical performance while minimizina distractions from noise (from inside or outside the room). On the other hand, outdoor performance spaces like stadiums and amphitheaters have an entirely different set of requirements, and often require noise studies to fit into the communities where they're located. As an independent acoustical consulting and AV design firm, we take into account the whole equation. from the performers to the audience, 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 community theatres to sophisticated multimedia systems for dynamic, touring stage productions, along with sports stadiums and major concert venues. Costs are estimated early in the process to bring needs and desires in-line with the budget. We create audiovisual infrastructure drawings and specifications, working with project architects to integrate the equipment into their designs and working with engineers to advise on AV equipment HVAC and electrical loads.

#### Architectural Acoustics

performance Great venues have great acoustics, optimized for both performed music and the spoken word. At ABD Engineering & Design, we use 3D modeling software to accurately predict the acoustical response of all types of performing arts venues. 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 from the front row to the balconies.



#### BIM Design

Building Information Modeling (BIM) is an intelligent 3D modeling and databasebased 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.

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 ensure 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.



### Performance Venues Selected Experience





20 Monroe Live Nation Events Grand Rapids, MI

Arcadia Bluffs Golf Club Arcadia, MI

Berman Center for the Performing Arts West Bloomfield, MI

Brighton Center for the Performing Arts Brighton, MI

Calvin College Recital Hall Covenant Fine Arts Center Grand Rapids MI

Catholic Central Stadium Grand Rapids, MI

Celebration Cinema and IMAX Cinema Grand Rapids, MI Kalamazoo, MI Lansing, MI

Charlevoix Pavilion Amphitehater Charlevoix, MI

City of Tallahassee Cascades Park Amphitheater Tallahassee, FL

Cornerstone University Matthews Auditorium Matthews Performing Arts Center Christ Chapel Grand Rapids, MI

**CRC Conference Grounds** Grand Haven, MI

Delphi Opera House Delphi, IN

**Detroit Institute of Music Education** Detroit, MI

**Detroit Regional Convention Facility Authority** Cobo Hall Detroit, MI

East Grand Rapids High School Athletic Complex Stadium East Grand Rapids, MI

Grand Rapids Christian High School Eagles Stadium Grand Rapids, MI

Grand Rapids Community College Albert P. Smith Music Center Linn Maxwell Keller Performance Hall Grand Rapids, MI

Grand Valley State University Haas Performing Arts Center Linn Maxwell Keller Black Box Theater Allendale, MI

Event Center Detroit, MI

Greektown Casino

Hale Centre Theatre Mountain America Performing Arts Centre Sandy, UT



High Star Ranch The Barn Conference and Events Center Kamas, UT

Hope College Martha Miller Center for Global Communication Holland, MI

Indiana Wesleyan University Chapel Auditorium Marion, IN

Kent State Hospital Conference Center Kent, OH

Little Caesar's Arena Detroit, MI

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

Mosaic Youth Theatre Detroit, MI

Motherhouse Retreat House Bedford, OH

Peralta Hacienda Oakland, CA

Plainwell High School Performing Arts Center Plainwell, MI

Saint Cecilia Music Center Royce Auditorium Grand Rapids, MI

Summerfest Festival Park Milwaukee, WI

Tamarack Camps Amphitheater Ortonville, MI

University of Michigan Earl V Moore School of Music Ann Arbor, MI

University of Michigan Flint Conference and Event Spaces Flint, MI

University of Oregon Autzen Stadium Eugene, OR

Urban Institute for Contemporary Arts Grand Rapids, MI

Village Theater Company Vanguard Theater Sewickley, PA

Wayland Union Schools Performing Arts Center Wayland, MI



Jamie Hurd Amphitheater West Des Moines, IA

Western Michigan University WMUK Radio, Kalamazoo, MI

Woodward Garden Theater Detroit, MI

Zimmer Amphitheater Grand Rapids, MI

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



## Museum & Theater Project

Project Name Chehalem Cultural Center (Phase 3)

Location Newberg, Oregon

Size and Budget 9,000 SF \$5 million

Year Completed 2024

Description

Scott Edwards Architecture, the Chehalem Park and Recreation District (CPRD), and Chehalem Cultural Center (a nonprofit 501(c)(3) organization) brought ABD Engineering & Design in for this adaptive reuse project. The ongoing project reimagined a 1935 WPA elementary school as a community building celebrating the arts, community, education, and heritage to inspire and enrich lives by connecting community and culture.

ABD's acoustical and audiovisual consulting services in the new performing arts wing (phase 3) addressed room acoustics, interior noise isolation, mechanical noise control, and AV design for the flexible and specialized spaces including meeting rooms, art galleries, movement studio, multipurpose arts studio classrooms, and spacious two-story lobby with open stairs. The 215 seat La Joie Theatre with the Jim Halliday Stage features a large screen with rear video projection, high-end audio systems, and acoustical treatment that makes the space sound as good as it looks.









## Performing Arts School

Project Name Interlochen Center for the Arts

Music Center

Interlochen, Michigan Location

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

Year Completed 2019

> ABD Engineering & Design Description 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









### Theater

Project Name

Hale Centre Theatre and Proscenium Thrust Stage

Location

Sandy, Utah

Size

1000 Seats + 500 seats

Opening

September 2017

Description

ABD Engineering & Design's Professional Engineers developed recommendations for acoustical treatment, along with construction materials and methods to provide an acoustically rich and pleasing environment.

The Hale Centre Theatre's Centre Stage Theatre is set in the round for an old-world feel, with new-world design, while the Jewel Box Stage (proscenium thrust) provides a more intimate experience.

ABD Engineering & Design performed an environmental study to help anticipate the noise and vibration from the highway adjacent to the theater, and followed up with complete room acoustics, noise isolation, and mechanical noise control for the theater and proscenium thrust stage. The theater has a complicated system of lifts, positioned in close proximity to the audience, which required extensive noise and vibration mitigation.

Photos courtesy of Hale Centre Theater.









## 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

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.

ABD Engineering & 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.







## University Projects

Project Name Grand Valley State University

Haas Performing Arts Center and Linn Maxwell

Keller Black Box Theater

Location Allendale, Michigan

Year Completed 2017

Description

The addition of a black box theater to the existing performing arts center, along with three new ensemble rooms, and renovations to the existing music and dance department spaces, were of paramount importance for this project. ABD Engineering & Design provided audiovisual design and acoustical engineering throughout the center. Starting with acoustical measurements of the existing conditions, we followed with engineered recommendations for room acoustics, noise isolation and mechanical noise control. The ensemble rooms are dedicated to the type of music or instrumentation they serve, but a priority was placed on adjustable acoustics for personal preference. ABD worked with Stantec to create flexible acoustical environments for the music, dance, and theater departments, along with an integrated audiovisual system design.



Photo courtesy of GVSU





### Concert Venue

Project Name 20 Monroe Live

Location Grand Rapids, MI

Size 2,600 flexible seating

Opened February, 2017

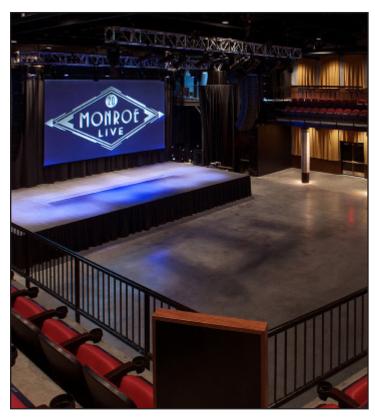
Description

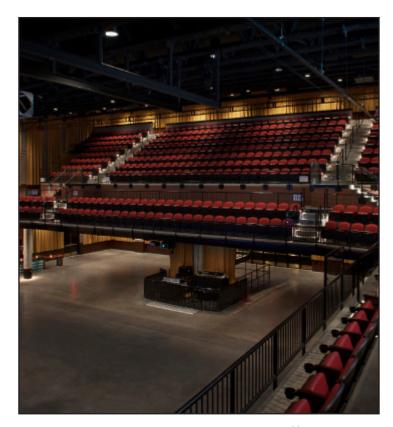
ABD Engineering & Design worked directly with the Gilmore Group, in Partnership with House of Blues and Live Nation Clubs and Theaters to provide extensive acoustical consulting for this premiere live performance venue in the heart of the city.

Of particular concern was managing exterior noise levels, due to the adjacent hotel, high-end condominiums and other residential properties. ABD began with a noise study to predict the noise propagation, and engineered recommendations for the building envelope to minimize the impact of the new facility.

20 MONROE LIVE

Photos courtesy of 20 Monroe Live





### Music Theater

Project Name Saint Cecilia Music Center Royce Auditorium

Location Grand Rapids, Michigan

Size 500 seats, 27,700 SF

Opening October 2016

Description ABD Engineering & Design worked directly with Saint Cecilia Music Center staff to provide acoustical engineering recommendations for this historic performance venue.

Originally completed in 1894, this beautiful 500 seat auditorium has undergone many renovations, most recently in 2016, to restore the luster of the Gilded Age space. The St. Cecilia Society was founded by a group of nine affluent Grand Rapids women, who started meeting in each other's homes to perform for each other. Considered the "mother of the arts" in Grand Rapids, most of the city's music and theater groups got their start there.

"To this day, the auditorium is considered an acoustical gem, one of the finest recital halls in this country or abroad."

- St. Cecilia Music Center









## **Amphitheater**

Project Name Jamie Hurd Amphitheater

Location West Des Moines, Iowa

Year Completed 2020

Budget and Size \$2.4 Million, 1,550 SF Stage, lawn seating for

2000 people

Description ABD Engineering & Design worked with Confluence on the City of West Des Moines

Jamie Hurd Amphitheater.

Our Acoustical Engineering services included a site noise study. We used the data collected on site for modeling the proposed amphitheater designs to determine sound propagation throughout the site, and from the amphitheater to the community, including the nearby library. ABD's recommendations for noise mitigation to reduce the overall community noise exposure, were also targeted at providing the best outdoor performance environment possible.

As the project moved forward, ABD worked with the architect and city stakeholders to review construction drawings and confirm our recommendations.



Photos courtesy of the City of West Des Moines





## Amphitheater

Project Name Cascades Park Amphitheater

Location Tallahassee, Florida

Year Completed 2012 and ongoing

Description

The Cascades Park renovation project is a community initiative in Tallahassee, FL to create a social capital center for the community, which will encompass the arts, entertainment, history, education, wellness and pride. When complete, the park will include an amphitheater, a baseball field, historic building renovations, and open green space for trails and community gatherings. ABD Engineering & Design was brought in to conduct a community noise assessment for the amphitheater ensuring proper noise levels. ABD also worked to design an audio-visual system for the amphitheater.

The City of Tallahassee has brought ABD in on a number of occasions to assist with adjustments to the stage, and the park acoustics and sound system.





## Amphitheater

Project Name Charlevoix Pavilion

Location Charlevoix, Michigan

Year Completed 2008

Size and Cost Lawn seating for 500, \$20 Million

Description ABD Engineering & Design offered independent consulting services in architectural acoustics and audio-visual design for the newly built, Chalevoix Band Shell Amphitheatre in Charlevoix,

Michigan. Our professional engineers developed

a comprehensive plan to address all relevant acoustical and audio-visual issues at the site, rendering it fit for a wide variety of performances and events.

Speakers were hidden in the brick columns flanking the stage for aesthetics as well as weather protection. A Christie LX120 projector was installed to provide viewing options for images or films during evening events. Our final report included specifications for the audio, video, and lighting systems as well as specifications for construction features that would maximize the acoustical qualities of the shell. The end result was a classy outdoor performance space that looks great and sounds even better.





### Outdoor Performance

Project Name Summerfest

BMO Harris Pavilion,

**Briggs & Stratton Big Backyard** 

Location Milwaukee, Wisconsin

Year Completed 2011

Description Summerfest is the world's largest music festival, providing the backdrop for the music

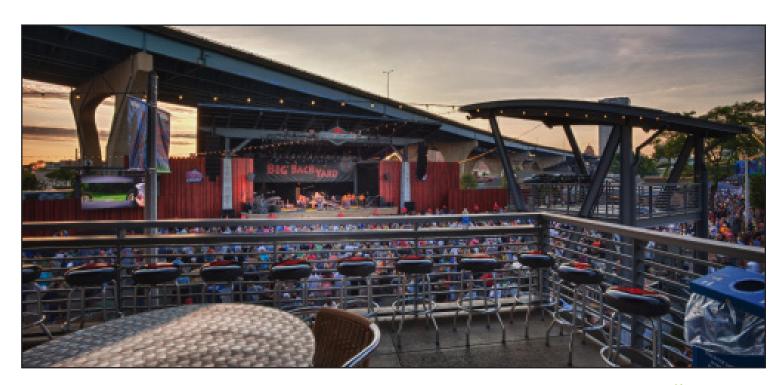
industry's hottest stars, emerging talent and local favorites in a world-class festival setting.

ABD Engineering & Design worked with Eppstein Uhen Architects to perform a comprehensive acoustical analysis, including a community noise assessment, on two of the premier festival stages – the BMO Harris Pavilion and the Briggs & Stratton Big Backyard.

Their efforts, in conjunction with the rest of the design team, resulted in a great-sounding facility, free from excess reverberation, which provides fans with an unforgettable live music experience.







### **Event Center**

Project Name High Star Ranch - The Barn

Location Park City, Utah

Size 1500 Seats

Description

ABD Engineering & Design provided complete Audio, Video, Specialty Lighting, and Digital Signage, along with Room Acoustics, Sound Isolation, and Mechanical Noise Control for this barn-themed concert venue and conference center.

Constructed from an actual old barn on the site, this one-time wedding venue is being transformed into a premiere performance space, with support for conferences, and still maintaining a rustic wedding location. All this, part of a planned community designed with high expectations.





### Convention Center

Project Name Cobo Center

Size & Budget 700,000 Sq. Ft. \$221 Million

Schedule 2010 - 2015

Description ABD Engineering & Design provided audiovisual and technical systems design for the

complete renovation of Cobo Convention & Exhibition Center, home of the North American International Auto Show. ABD worked with Albert Kahn Associates and SDG Associates to offer comprehensive audio-visual design

services including:

· Audio Systems Design

· Video Systems Design

• Digital Signage Systems Design

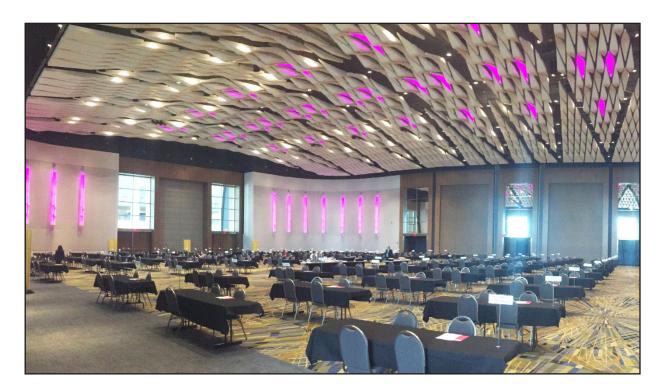
• Large Format Video Systems Design

Paging Systems Design

Our scope of services addressed the entire facility including the Exhibition Halls, New Ballroom, Meeting and Banquet Spaces, Public Circulation, and Outdoor Public Areas.







## University Projects

Project Name Cornerstone University
Matthews Auditorium

Location Grand Rapids, Michigan

Seats 435

Year Completed 2014

Description

Cornerstone University worked with ABD Engineering & Design on an expansion and overhaul of the existing auditorium, renovating it from a simple concrete box to a state of the art university performing arts center. ABD designed integrated audio, video, and theatrical lighting systems with complete acoustical engineering services including room acoustics, noise isolation, and mechanical noise control. The stage needed to perform well for spoken word, music, dance, and theater presenting a common but not inconsequential challenge for an 8,000 square-foot, 435-seat space. The acoustics and audiovisual systems had to be flexible, and easy to use, but still provide professional results for each of the varied uses. In the end, the performance venue sounds as good as it looks.







## University Chapel

Project Name Indiana Wesleyan University

Chapel Auditorium

Location Marion, Indiana

Year Completed 2010

Size and Cost 3,800 seats, \$22 Million

Reference Kevin Scully, NCARB, President

Design Collaborative

825 South Barr Street, Suite 100

Fort Wayne, IN 46802 (260) 422-4241

Description

The University Chapel and Auditorium seats 3,800 between the raked main floor and in the two balconies. It is the largest indoor assembly space on campus and will be used for graduation ceremonies, performing arts events, and of course, chapel. ABD Engineering & Design provided full design services for the Chapel's audio-visual systems, including the large rear projection displays which are integrated into the interior architecture.







### Performance Hall

Project Name Calvin College Covenant Fine Arts Center

Location Grand Rapids, Michigan

Size & Cost 1100 Seats, 124,000 SF, \$15 Million

Year 2010

Completed

Description

ABD Engineering & Design provided acoustical engineering and AVL systems design for the Covenant Fine Arts Center at Calvin College. Our work included the 1,100 seat Auditorium, 300 seat Recital Hall, Choir, Band, Rehearsal Rooms, and support spaces. ABD worked closely with GMB Architects + Engineers and the Calvin Staff to design state of the art AVL systems and acoustical features for the FAC. Our professional engineers used a binaural dummy head to measure the acoustical response throughout the auditorium and balcony. This data, combined with a predictive 3D computer model of the space, gave us the acoustical "fingerprint" of the space. Our design included adjustable acoustic features that can optimize the sound for any type of event. The facility has been met with rave reviews and is poised to meet the needs of the school for years to come.







### Performance Hall

Project Name Calvin College Recital Hall

Location Grand Rapids, Michigan

Size 300 Seats

Year Completed 2010

Description The brand new Recital Hall at Calvin College's Covenant Fine Arts Center meets a unique need by providing a smaller performance space with great acoustics, technology, and aesthetics. Until its completion, smaller performances (such as student recitals) took place in the large Auditorium, dwarfing the small crowd and killing the mood. ABD Engineering & Design engineered acoustical solutions and AVL systems for the space including a high definition video projection system with operable screens for both upstage and downstage. The 300 seat Recital Hall is optimized to provide a great solution for intimate performances, lectures, and even the occasional movie showing.

> The acoustics of the Recital Hall are so pristine that some choir directors have avoided using it as a rehearsal space. Their reason? "It makes us sound better than we actually are!"







Project Name Wayland Union Fine Arts Center

Location Wayland, Michigan, 2010

Size & Cost 800 Seats, \$8 Million

Description ABD Engineering & Design provided acoustical engineering and Audio,

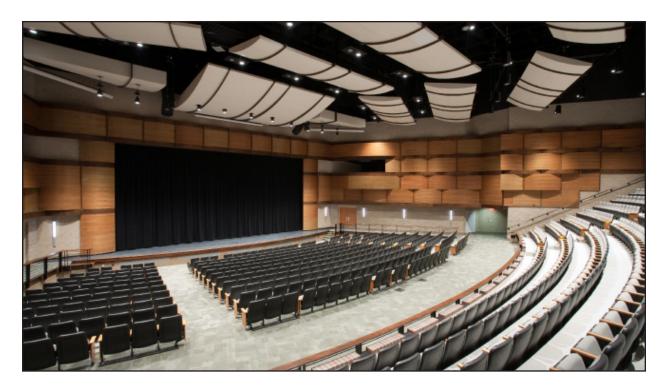
Video, and Theatrical Lighting Systems Design for the new Wayland Union Fine Arts

Center.

Our design included the 800-seat auditorium, cafeteria, and lobby. ABD worked with GMB Architects + Engineers to ensure the spaces sounded as good as they looked. Our professional engineers used a 3D modeling program to predict the acoustical enhancements that have come to characterize the room's acoustical signature. In addition our AVL Designers provided a state of the AVL system and Digital Signage that connects the auditorium to the cafeteria and the existing music rehearsal spaces.







Project Name Plainwell High School, Performing Arts Center

Location Plainwell, Michigan

Size 750 Seats, \$11 Million

Year Completed 2010

Description

ABD Engineering & Design was selected by GMB Architects + Engineers to design comprehensive acoustical engineering and audio-visual systems for the new Performing Arts Center at Plainwell High School. The two-tier, 750-seat auditorium boasts a sunken orchestra pit, acoustical reflector clouds, scene shop, loading gallery, dressing rooms, and an acoustically optimized lobby with custom display cases for student artwork.

Our engineers designed acoustical improvements that enhanced the space for sound including room acoustics, noise isolation, and HVAC noise control in the auditorium and lobby. In addition, our Audio-Video Engineers developed technical systems custom fit to compliment the acoustical enhancements.

The result is a pristine auditorium suited to meet the school district's needs for years to come. The Performing Arts Center recently opened to rave reviews from students, teachers, and the community.









Project Name East Kentwood High School Auditorium

Location Kentwood, Michigan

Year Completed 2006

Size and Cost 1600 Seats, 300,000 SF, \$65 Million

Description ABD Engineering & Design was hired by GMB Architects and Engineers to consult on

comprehensive room acoustics, mechanical noise control, and audio-visual design for the

auditorium at East Kentwood High School.

The 1600-seat auditorium is used for performing arts events as well as community activities. ABD used a 3D computer modeling program called EASE to predict the acoustical attributes of the space. We then designed a complete audio-visual and theatrical lighting systems to work in tandem with the room's acoustical features.







Project Name Allendale High School Ceglarek Fine Arts Center

Location Allendale, Michigan

Year Completed 2005

Size 790 Seats

Description ABD Engineering & Design worked with

GMB Architects and Engineers to design comprehensive acoustical solutions for the

new 790 seat Fine Arts Center.







### Cinema

Project Name

IMAX Theatres at Celebration Cinema

Location

Lansing and Grand Rapids, Michigan

Year Completed

2002

Description

ABD Engineering & Design was retained to offer consulting services for architectural acoustics in the IMAX Theatre, located inside Celebration Cinema of Lansing, Michigan. Our design services included specifications for proper reverberation time, mechanical noise control, and interior and exterior noise isolation. The project called for exceptional sound quality to meet the high expectations of an IMAX movie experience.

Even before construction began, our professional engineers used a 3D computer modeling program called EASE to accurately simulate the room's acoustical attributes. Comprehensive recommendations were made to cover every aspect of acoustical design. Our final report gave Celebration Cinema the information necessary to provide an exceptional IMAX experience for all their movie quests.







## Melinda Miller, PE Principal Engineer LEED AP BD+C, EDAC, INCE Bd. Cert. mmiller@abdengineering.com

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.

- Linfield College, Murdock-Graf, McMinnville, OR
- Schirle Elementary School, Salem, OR
- 1122 SE Hawthorne, Residential Mixed Use, Portland, OR
- German Village, Residential Mixed Use, Columbus, OH
- Victory Charter School, Performing Arts, Nampa, ID
- Sprague High School, Salem, OR

- Portland Community College, Cascade Campus, Public Service Education Building, Portland, OR
- Tillamook High School, Auditorium, Tillamook, OR
- Oregon Humane Society, Portland, OR
- Wenaha Baker Schools, Theater, Baker City, OR
- PDX Power Punch, Title Boxing Fitness, Portland, OR
- Oregon State University, Fairbanks Hall Renovation, Corvallis, OR
- Mayo Clinic, Behavioral Health, Albert Lea, MN
- University of Oregon, Autzen Stadium, Eugene, 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.

- Portland Community College, Cascade Campus, Public Service Education Building, Portland, OR
- Oregon State University, Fairbanks Hall, Corvallis, OR
- North Eugene High School, Eugene, OR
- City of Ukiah, Council Chambers, Ukiah, CA
- Kaiser Permanente, North Lancaster Medical Office Building, Salem, OR

- Moreland Presbyterian Church, Sanctuary, Portland, OR
- Port of Vancouver, Commission Room, Vancouver, WA
- Clackamas Community College, Barlow Hall, Automotive, Oregon City, OR
- The University of Providence Great Falls, University Center, Great Falls, MT
- Central Michigan University, Center for Integrated Health Studies, Mount Pleasant, MI

- University of Montana, Early Childhood Education Center, Missoula, MT
- Muskegon Community College, Arts and Humanities, Theater Music and Art, Muskegon, MI
- South Christian High School, Grand Rapids, MI
- University of Oregon, Autzen Stadium, Eugene, OR



## Peter Allen, PE Senior Engineer INCE Bd. Cert. pallen@abdengineering.com



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
- · Jesuit High School, Portland, OR
- Kaiser Permanente:

   Hybrid Operating Room,
   Clackamas, OR
  - -Salmon Creek MRI, Vancouver, WA
  - -North Lancaster MOB, Salem, OR -Clackamas Eye Care MRI, Happy • Valley, OR
- · Lakeridge High School, Lake

- Oswego, OR
- Ron Russell Middle School, Portland, OR
- Tukes Valley K-8 School, Battlegreound, WA
- West End Surgical, Beaverton, OR •
- Yates Pointe Mixed Use Development, Bend, OR
- Zoom+, Bridgeport Village Clinic, Portland, OR
- USANA Sciences

Company,Packaging Area, Valley City, UT

- TriMet, Columbia 10, Portland, OR
- St John Fisher School, Gym Noise Isolation, Portland, OR
- Bendix, Relocation Noise and Vibration, Avon, OH



### Jeremy Bielecki

Senior Acoustical Consultant jbielecki@abdengineering.com



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.

- Munson Medical Center Traverse City, MI
- \*St. John Hospital, Detroit, MI
- \*Detroit Pistons Performance Center, Detroit, MI
- \*Greektown Casino Hotel, Detroit, MI
- \*University of Michigan, Ann Arbor, MI Law School: Hutchins Hall, Jeffries Hall Student Union Central Campus Recreation Building Beyster Building Addition Munger Student Residences
- \*Central Michigan University, Mount Pleasant, MI Grawn Hall Ronan Hall

- \*Michigan State University, East Lansing, MI Broad Art Museum STEM Power Plant Renovation
- \*Henry Ford Community College, Recording Studio, Dearborn, MI
- \*Kendall College of Art and Design, Grand Rapids, MI
- \*Davidson Foundation Development, Bloomfield Hills, MI
- Romeo High School, Auditorium, \*Romeo, MI
- \*Byron Center High School, Byron Center, MI
- \*Ann Arbor School of the Performing Arts, Ann Arbor, MI
- \*Toyota Technical Center, Quiet Room, Ann Arbor, MI

- \*Charles H Wright Museum of African American History, Detroit, MI
- \*Emagine Theaters, Royal Oak, MI
- \*Residence Inn by Marriott, Grand Rapids, MI
- \*Bharatiya Temple, Troy, MI
- \*The Mid: Co-Living, Detroit, MI
- \*New Beginning Baptist Church, Waterford, MI
- \*Cobo Center, Detroit, MI
- \*Patrick V. McNamara Fitness Center, Detroit, MI
- \*Theodore Levin U.S. Courthouse, Detroit, MI





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.

- South Cooper Mountain Apartments, Beaverton, OR
- Wood Village Mixed Use, Wood Village, OR
- Farmdale Apartments, North Hollywood, CA
- L&M Industrial Fabrication, Lot Expansion Barrier Calculations, Tangent, OR
- USANA Sciences Company, Packaging Area, Valley City, UT
- TriMet, Columbia 10, Portland, OR

- Hermiston Schools (Theater Lane Elementary School, Rocky Heights Elementary School, High School Classroom Annex and CTE), Hermiston, OR
- Dry Creek Landfill, Noise Study, Eagle Point, OR
- Kaiser Permanente, Sunnyside Medical Center, Clackamas, OR
- United Natural Foods, Noise and Vibration Study, Ridgefield, WA
- Threemile Canyon Farms, Generator Exhaust, Boardman, OR

- Northwest Pipe Company, Open Office Acoustics, Vancouver, WA
- Columbia Shores Townhouses, Overlay Noise Study, Vancouver, WA
- Wood Village Mixed Use, HUD Noise Study, Wood Village, OR
- Clackamas Federal Credit Union, Corporate Headquarters, Oak Grove, OR



## Quincey Smail Senior Acoustical Consultant INCE Bd. Cert. qsmail@abdengineering.com



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.

- Public Museum, Grand Rapids, MI
- · Courtyard Marriott, Detroit, MI
- Essity Operations Gennep, Netherlands
- Tri County Area Schools, Cafetorium, Howard City, MI
- Nestle Production Studio, Solon, OH
- Bendix, Relocation Noise and Vibration, Avon, OH
- Western Michigan University, Dunbar Hall, Kalamazoo, MI
- Western Michigan University, College of Aviation, Battle Creek, MI

- Riverview Church, Auditorium, Holt, MI
- 212 River Residential Mixed-Use, Holland, MI
- Jefferson Lofts Condominium Association, Noise Isolation, St. Joseph, MI
- West Ottawa Public Schools, Performing Arts Center, Holland, MI
- Warner Norcross & Judd, Office Acoustics, Detroit, Grand Rapids, and Kalamazoo, MI
- Tommy Car Wash Systems, Car Wash Noise Study, Hudsonville and Flint, MI

- Forslund Condominium, Impact Isolation, Grand Rapids, MI
- Domino's Pizza, Boardroom and Warehouse Open Office, Ann Arbor, MI
- Interlochen Center For The Arts, Kresge Amphitheater, Interlochen, MI
- Grand Valley State University, Product Design and Robotics Studio, Grand Rapids, MI
- Ford Motor Company, Conference & Event Center, Dearborn, MI
- Opera Grand Rapids, Grand Rapids, MI





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.

- 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, CTS Audiovisual & Acoustical Consultant fbodbylmast@abdengineering.com



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
   Dewitt Center for Economics and
   Business, Holland, MI
- Oregon State University Fairbanks Hall Corvallis, OR
- Oregon State University Student Success Center Corvallis, OR
- Columbia Gorge Community College Nursing SIM Lab The Dalles, OR
- Hillsboro Civic Center Hillsboro, OR
- Chehalem Cultural Center Newberg, OR

- City of Troy Council Chambers Troy, MI
- Portland Art Museum Rothko Pavilion, Portland, OR
- Rogue Credit Union Community Complex Sports and Events Medford, OR
- Wheaton Academy West Chicago, IL
- St Paul Center Steubenville, OH
- Ben Davis High School Indianapolis IN
- Potter Elementary School Flint, MI
- Illiana Christian High School Lansing, IL

- Amity Middle School and High School Amity, OR
- Spokane Pubic Schools Lewis and Clark High School Spokane, WA
- NAMI Oregon Portland, OR
- Peace Church Middleville, MI
- Gardens of Sun City Senior Living, Sun City, AZ
- Senior Living Peoria AZ
- Happy Valley Library Happy Valley, OR

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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

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



### References

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