

Architectural Acoustics • AV Design • Noise & Vibration

Library and Museum

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 Communications in Libraries and Museums

Acoustical Engineering and Audiovisual Design No longer just quiet spaces, new media and technologies are enriching the K-12, higher education, museum public library experience more aural and visual communication options. Designing architectural spaces that create engaging environments and embrace and integrate these options into the pedagogy and learning techniques are paramount for encouraging creativity, ingenuity, and discovery at progressive institutions.

At ABD Engineering & Design, our acoustical engineers develop solutions to enhance expert communications in all types of museum and library facilities. We help design and engineer audiovisual communications systems the architectural environments in which they perform to optimize speech intelligibility and acoustical performance - so communications are delivered with acoustical clarity, while still honoring the traditional "shhh" we all associate with the library or museum.



Acoustics for the Built-Environment

Capital programs directors, facilities directors, architects, engineers, and contractors consult us, often early in the pre-construction phase, for expert acoustical analyses and solutions. Using measured noise and vibration data, sophisticated computer modeling software, our acoustical engineers draw upon their professional experience to assess and predict potential noise problems. We analyze sound transmission, reverberation, absorption,



reflection, diffusion, vibration, and other complex acoustical challenges. We help engineer the design of building partitions – shaping spaces of all sizes to negate distracting noise for adjacent spaces and exterior sources to ensure that building mechanical systems won't mask vocal communications. We work with architects to select surfaces and finishes that naturally amplify speech and reduce vocal efforts while complementing architectural aesthetics.

Audiovisual Systems Design Our AV consultants are experts at designing and integrating custom AV solutions for each type of setting – from classrooms, lecture halls, distance learning, active learning classrooms, and e-learning centers to conference facilities, assembly halls, and performing arts centers. We understand the performance capabilities of multi-media, entertainment, and critical listening technology and its relationship and integration in varying environments.

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.

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.



Library and Museum Projects

Selected Experience





Avondale Schools Avondale, MI

Beaverton Health & Science School Beaverton, OR

Bloomfield Hills High School Bloomfield Hills, MI

Buchanan Elementary School Grand Rapids, MI

Burton Elementary-Middle School (LEED)

Grand Rapids, MI

Catholic Central High School Grand Rapids, MI

Central Catholic High School Portland, OR

City of East Grand Rapids, MI Community Center and Library

David Douglas School District Ventura Park Elementary Portland, OR

Dayton School District Dayton, OR

Davenport University:

Caledonia, MI College of Business Student Center Fieldhouse

Detroit Public Schools Detroit, MI

Eastern Michigan University: Ypsilanti, MI Fletcher School Autism Collaborative Center

Ferris State University: Big Rapids, MI

Big Rapids, MI University Center Renovation Ferris Library for Information Technology and Education (FLITE) **Grand Rapids Art Museum** Grand Rapids, MI

Grand Rapids Public Museum Meijer Theater Grand Rapids, MI

Grand Valley State University: Allendale, MI Health Sciences Mary Idema Pew Library

Hatfield Courthouse Library: Portland, OR

Lincoln Township Library: Stevensville, MI

Linfield College:McMinnville, OR
Murdock and Graf Halls

Madison Public Library Madison, WI

Michigan Institute of Aviation and Technology: Bellville, MI



Michigan State University: Grand Rapids, MI - Secchia Center

Muskegon Community College Arts and Humanities

North Central Michigan College: Petosky, MI Administration and Classroom Building

North Eugene High School: Eugene, OR

Pacific University: Forest Grove, OR Scott Hall, McGill Hall Lecture Hall

Sloan Longway Planetarium Flint, MI The Music Settlement Cleveland, OH

Thomas M. Cooley Law School Grand Rapids, MI

University of Connecticut Hartford Downtown Campus

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

University of Montana: Missoula, MT Early Childhood Education Center

University of Oregon Oregon Hall

University of Notre Dame Hesburgh Library Corby Hall Replacement

Utah Data Center, Technical Library: Saratoga Springs, UT

Virginia M. Tutt Branch Public Library: South Bend, IN

Wayne State University: Detroit, MI Student Center

Western Theological Seminary: Holland, MI Library

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

Educational projects that contain libraries or museums are included, along with formal spaces.



Library Project

Project Name Happy Valley Library Expansion

Location Happy Valley, Oregon

Size and Budget 10,700 SF \$6.5 million

Year Completed 2024

Description

ABD Engineering & Design worked with Scott Edwards Architecture and the City of Happy Valley on this community library expansion project. ABD provided acoustical and audiovisual consulting services for the new lobby, plaza, divisible 300-person community room, 3 study rooms, offices, kitchen, and support spaces.

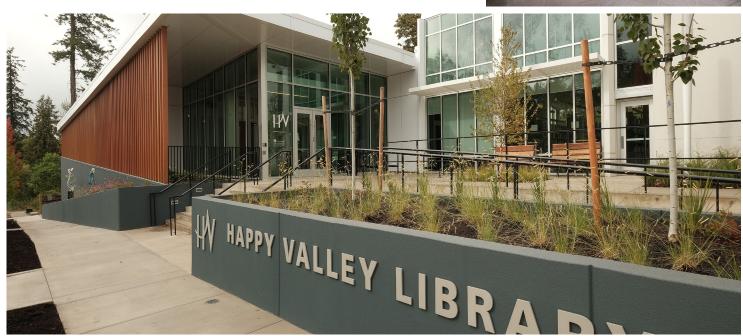
ABD's AV design began with audiovisual infrastructure needed to support the systems and allow for later improvements and expansion. In the divisible community room, we addressed projection and screens for video and presentation while balancing the needs of floor-to-ceiling daylight windows on two sides with a row of clerestory windows across the back.

Acoustical engineering recommendations for room acoustics, interior noise isolation, and mechanical noise control maintained the expected quiet in the new library spaces.









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.









Project Name University of Oregon Allen Hall Experience Hub

Location Eugene, Oregon

Size and Budget 18,000 SF \$3.2 million

Year Completed 2019

Description

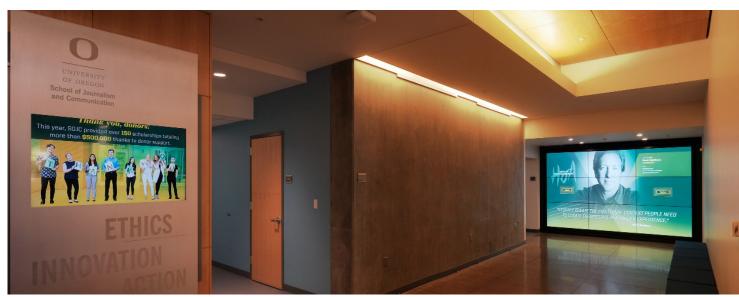
ABD Engineering & Design worked closely with PIVOT Architecture, and University of Oregon staff on the Allen Hall Experience Hub renovation. The facility is shared by different groups including: the School of Journalism and Communications, immersive media, games development, psychology and counseling,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

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









K-12 Performing Arts School

Project Name Interlochen Center for the Arts
Music Center

Location Interlochen, Michigan

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

Year Completed 2019

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

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

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

- Camille Colatosti, Provost, Interlochen Center for the Arts









K-12 Project

Project Name

Sam Barlow High School

Location

Gresham, Oregon

Year Completed Size and Budget 2020, 181,000 SF, \$290-million

Description

ABD Engineering & Design worked with Opsis Architecture and the Gresham-Barlow School District to provide acoustical and audiovisual design of Sam Barlow High School.

The school focuses on STEM and Career Technical Education (CTE) with a new science wing and maker spaces. The project covered AV and acoustics for the stadium, classrooms, labs, administration and guidance. The performing arts center includes a teaching theater (blackbox), chorus and band rooms, plus a full auditorium.











K-12 Private School

Project Name South Christian High School

Location Byron Center, Michigan

Year Completed 2019

Description ABD Engineering & Design partnered with AMDG Architects to develop acoustical and audiovisual designs for this new campus.

The school includes 56 classrooms, performing arts center around a 1,100-seat auditorium featuring fixed and flexible seating and balcony, commons, STEM classrooms and labs, industrial arts, competition/performance gymnasium, along with administrative spaces.

South Christian High School offers classes for nearly 700 students from 9-12th grades. SCHS is affiliated with Moline Christian School, Byron Center Christian School, Dutton Christian School, Legacy Christian School, all of which provide K-8 Education











University Adaptive Re-Use Project

Project Name University of Connecticut Hartford Downtown

Hartford Times Building

Location Hartford, Connecticut

Cost and Size \$70 million, 232,000 SF

Year Completed 2017

Description

The University of Connecticut – Hartford Downtown campus serves over 3,000 students in the historic Hartford Times building and addition.

Robert A.M. Stern Architects (RAMSA) hired ABD Engineering & Design to address the Room Acoustics, Noise Isolation and Speech Privacy, and Mechanical Noise Control throughout the project.

ABD followed the BIM (Building Information Modeling) process with the architect, other consultants, and contractors to maintain efficiency of planning and construction along the way.

Our work on the project included complete acoustical engineering and consulting for the entire structure of 6 floors plus basement mechanical spaces, divided between approximately 140,000 SF of new construction and 90,000 SF of historic preservation renovation. The completed project consists of the student center, commons, cafe, conference and meeting rooms, classrooms, the STEM program, study rooms, labs (including state-of-the-art computer labs), lounges, the President's and Directors' offices, along with department and administrative offices, and a Veterans' Oasis lounge.

In April, 2018 the project was awarded a Connecticut Preservation Award of Merit from the Connecticut Trust for Historic Preservation. This award honors outstanding efforts in building preservation, enhancement of historic places as well as excellence in adaptive re-use of historic buildings, preservation of neighborhoods, and restoration of cultural landscapes.



Project Name Hope College Jim and Martie Bultman Student Center

Location Holland, Michigan

Year Completed 2017

Size and Budget 42,000 SF and \$22.5 million

Description

ABD Engineering & Design worked with Stantec (Philadelphia) on the Bultman Student Center, Hope College's first dedicated student-center space since 1980. The facility includes a comfortable lounge, large multi-purpose event space, exciting food and coffee cafe, intimate chapel, and a flexible movie theater/performance room. Other program elements of the building include Student Life, Counseling, and Psychological Services.

ABD provided complete acoustical engineering services and designed integrated audiovisual systems, including digital signage, sounds systems, and projection screens throughout the student center. The acoustical challenges included a multi-purpose room stacked above a flexible movie theater space. Our acoustical consultants paid special attention to the noise isolation and impact insulation between the two, to be sure the two conflicting spaces could be used simultaneously. Room acoustics were critical in the open spaces, and mechanical noise control was important throughout.









Project Name Wayne State University Student Center

Location Detroit, Michigan

Year Completed 2016

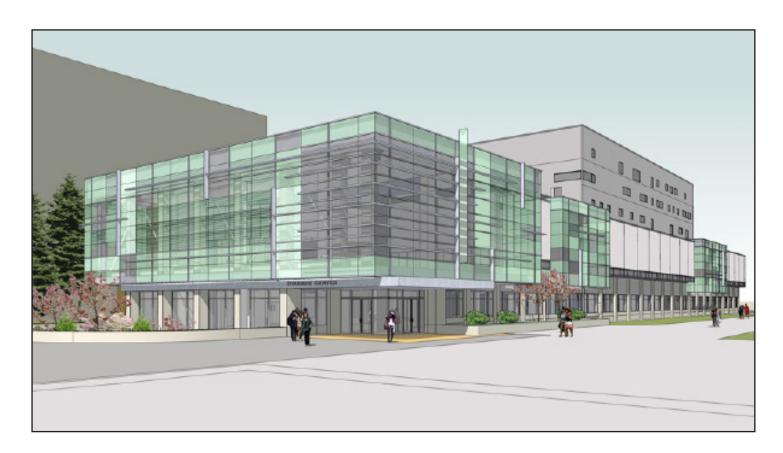
Size 100,000 SF

Description Wayne State University hired ABD Engineering

& Design for Audio, Video, and Digital signage systems design in the renovation of the 45 year old Student Center. The improvements provide a more modern, expansive and student-friendly atmosphere, and include touch-screen building directories at each entrance along with state of the art audio-video and technology systems

throughout the rooms.





Project Name Ferris State University University Center

Location Big Rapids, Michigan

Year Completed 2015

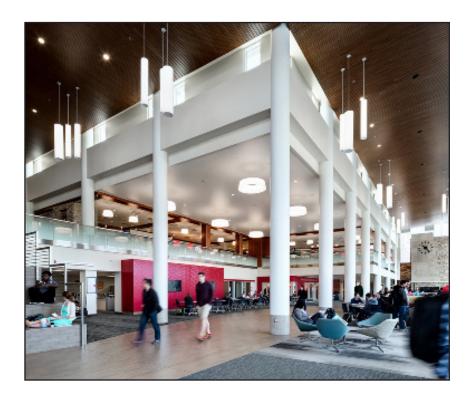
Project Size \$30 Million, 120,000 SF

Description

ABD Engineering & Design was hired by architectural firm Neumann/Smith to design comprehensive acoustical solutions and audio-visual and IT systems for this modern, future-oriented University Center. ABD worked with the design team to develop audio-visual and IT systems that create interactions beyond the classroom. The University Center has been designed to be a gathering space for residential and commuter students, and will include a mix of dining, retail and entertainment options. It also will house additional meeting space for student organizations. In addition, ABD's acoustical engineers developed solutions that optimized the environment for research and learning.









K-12 Project

Project Name Unity Christian High School

Location Grand Rapids, Michigan

Year Completed 2015

Size and Cost 147,000 SF, \$30 million

Services Provided Audio-Video System Design

Theatrical Lighting System Design

Room Acoustics Noise Isolation

Mechanical Noise Control

Description

Unity Christian High School features a two-story, three-court, 1800 seat gymnasium – auditorium. New music rehearsal spaces, along with updated classrooms, technology, and shop spaces. GMB Architects brought ABD Engineering & Design onto the project to provide acoustics and technical systems design throughout. Brightly colored common spaces, large windows, and open spaces create a vibrant hub for students and faculty. Acoustics and noise control was especially important to maintain the learning environment, supported by modern technology.







Project Name University of Michigan Schembechler Hall Margaret Dow Towsley Sports Museum

Location Ann Arbor, MI

Year Completed 2014

Description ABD Engineering & Design was brought in to provide audio-video support for the exhibits in the Towsley Museum, such as the Win Wall, with footballs for each of the program's 910 victories, displays with artifacts highlighting the history of Michigan football and a Legends area.

> One of our most visible contributions to the AV Design is The Big House video monitor wall. This set of 15 displays, roughly nineteen feet wide, can act independently or as one, and are controlled either by multi-touch or from a distance with gestures.







K-12 Project



Project Name Grand Rapids Christian High School

Location Grand Rapids, Michigan

Year Completed 2013

Size and Cost 165,000 SF, \$22 million

Services Provided Audio-Video System Design

Digital Signage System Design

Room Acoustics Noise Isolation

Description

The Grand Rapids Christian High School project included the renovation of existing classrooms, science labs, commons, town hall, multipurpose room, and specialty rooms. ABD Engineering & Design was retained by A.M.D.G. Architects and Grand Rapids Christian Schools to offer comprehensive acoustical engineering and audio-visual design for the school. The school now uses state of the art AV throughout to facilitate flexible instruction methods with an emphasis on student collaboration.











Project Name Grand Valley State University

Mary Idema Pew Library & Information Commons

Location Allendale, Michigan

Year Completed 2013

Size and Cost 150,300 SF, \$68 Million

Description

This AIA Building Award Winning, Library of the Future, is a new model for the learning environment. Designed and built as a centerpiece for the campus, this LEED Platinum Certified project came in \$2 Million under-budget. Stantec (SHW Group) hired ABD Engineering & Design to provide comprehensive Acoustical consulting for the library, including the Knowledge Market - a cafe/genius bar space for private conversations, in a public and inherently noisy area.







Project Name Grand Valley State University

L. William Seidman College of Business

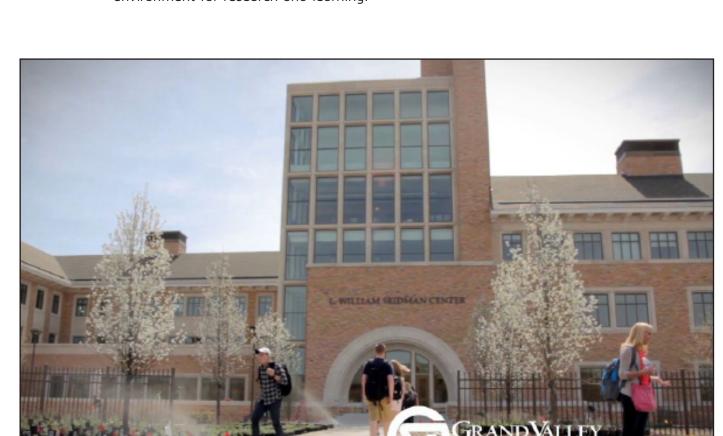
Location Grand Rapids, Michigan

Year Completed 2013

Size and Price 108,000 SF, \$40 Million

Description The Seidman College of Business building is intended to be a signature piece for the

downtown campus, featuring classrooms that can be converted for group projects as well as gathering places for students and faculty to interact, encouraging discussion and innovation. ABD Engineering & Design was hired by Robert A.M. Stern Architects to design comprehensive acoustical solutions for this modern, future-oriented University Business School. ABD worked with the design team to coordinate acoustics with GVSU's in-house audio-visual and IT departments. In addition, ABD's acoustical engineers developed solutions that optimized the environment for research and learning.







Project Name Michigan State University Secchia Center College of Human Medicine

Location Grand Rapids, Michigan

Year Completed 2011

Size and Cost 180,000 SF, \$90 Million

Description

ABD Engineering & Design was brought in by URS Corporation to offer consultation in architectural acoustics, noise isolation, and building systems noise control for Michigan State University's Secchia Center College of Human Medicine in downtown Grand Rapids, Michigan.

Several acoustical challenges included: exterior noise isolation from an adjacent freeway, architectural acoustics for the large multi-level atrium, building systems noise control for the top floor mechanical room – including a floating floor, concrete isolation pad. Our professional engineers used ray-tracing computer models to predict the acoustical needs of the space even before construction began. The design was acoustically optimized, cost effective, and aesthetically appealing. The building is optimized to conserve energy and preserve the environment. At the recent dedication ceremony, the building was awarded LEED Gold Certification.









K-12 Project



Project Name Kalamazoo Linden Grove Middle School

Location Kalamazoo, Michigan

Year Completed 2010

Size and Cost 142,000 SF, \$24 Million

Description

Linden Grove is slated to be only the second school in Michigan to be certified under the LEED for Schools program. ABD Engineering & Design was retained by TowerPinkster and Kalamazoo Public Schools as acoustical consultants for the project. The school uses state of the art architectural methods throughout and has been the winner of numerous architectural and construction awards.

ABD Engineering & Design carefully surveyed the acoustical environment throughout the school to ensure that it met the requirements for the reverberation time, background noise levels, and sound isolation properties of LEED. The school design incorporates many open classrooms, pod learning environments, and laboratory spaces. The LEED for Schools Rating System recognizes the unique, "green" nature of the design and construction of K-12 schools, and is designed to ensure that every student has equal access to learning.









Project Name Valparaiso University

Harre Student Union

Location Valparaiso, Indiana

Year Completed 2009

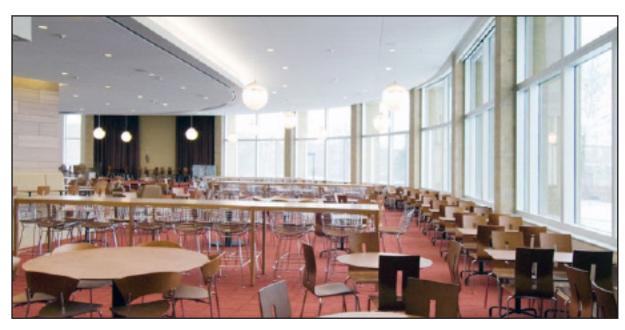
Size and Cost 202,000 SF, \$74 Million

Description

The Harre Student Union is the recipient of the 2009 Collegiate Citation, the top award from American School and University Magazine (AS&U). ABD Engineering & Design was brought in by Design Organization to provide comprehensive acoustical consulting and sound isolation design for the large divisible ballroom which is used for lectures, dances, concerts, and student activities. In addition, our work included the meeting rooms, banquet rooms, small conference rooms, and lobby. We paid particular attention to the acoustics for the large main entry lobby. With its glass, stone, and gypsum wallboard room finishes, the room required sufficient absorption to attenuate the acoustics without detracting from the crisp modern look of the space.









Project Name Kalamazoo College Hicks Center

Location Kalamazoo, Michigan

Year Completed 2008

Description

The renovated Hicks Center has received the LEED Silver Certification and acts as a center for the campus community. ABD Engineering & Design provided acoustical engineering and consulting services to support the renovation design. We worked with the project design team to address sound isolation, room acoustics, and HVAC noise control for counseling rooms, student healthcare center, bookstore, dining, large banquette and meeting rooms with historic murals and barrel vaulted ceilings, 4-story high main entrance lobby, and offices and conference rooms for student organizations and college staff.

"The Hicks Center was the first LEED registered new construction project in the Kalamazoo area. It has become a magnet that draws the entire college community into a beautiful space,"

- Eileen Wilson-Oyelaran, Kalamazoo College President









Project Name Davenport University

Student Center & Field House

Location Caledonia, Michigan

Year Completed 2008

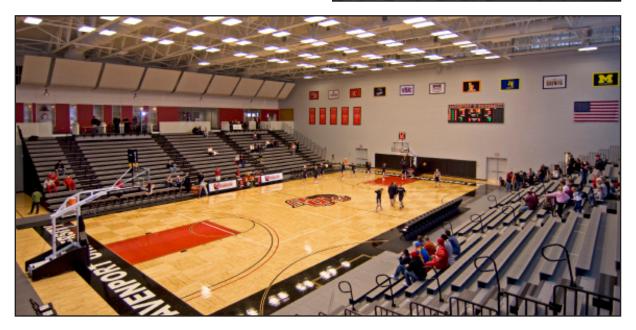
Project Size Description

87,000 SF, \$16 Million

ABD Engineering & Design provided comprehensive acoustical consulting for the LEED Certified Davenport University Student Center & Field House. Our professional engineers used 3D computer models to predict the acoustical response of the spaces and to design room acoustics, HVAC noise control, and noise isolation for all the critical spaces in the building including the Field House, Aux Gym, Fitness Center, Commons Area, and Meeting Rooms.







Project Name Thomas M. Cooley Law School

Location Grand Rapids, Michigan

Year Completed 2006

Project Size 98,000 SF, \$13 Million

Description The acoustical engineers at ABD Engineering & Design provided recommendations for architectural acoustics, interior noise

isolation, and mechanical noise control in

the renovated Cooley Law Building at 38 Oakes in downtown Grand Rapids, Michigan. Cooley Law School continued its expansion into the Grand Rapids area with the 54,209 SF renovation of, as well as the construction of a 31,376 SF addition to connect 38 Oakes to a new 12,852 SF building that replaced the Durfee building, all to house the Grand Rapids Campus of the

Thomas M. Cooley Law School.

The lower level and first floor of the existing building and addition house the law library. The second through fifth floors of the existing building include medium to small sized classrooms, faculty and staff offices. The second through fifth floors of the addition include four two-story, 90-seat classrooms with tiered seating. The new building houses offices for student services, student organizations, and staff.





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.

- Beaverton Health & Science School, Beaverton, OR
- Jesuit High School, Portland, OR •
- Kaiser Permanente:

 Hybrid Operating Room,
 - Clackamas, OR -Salmon Creek MRI, Vancouver,
 - -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

ABD Engineering & Design
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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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