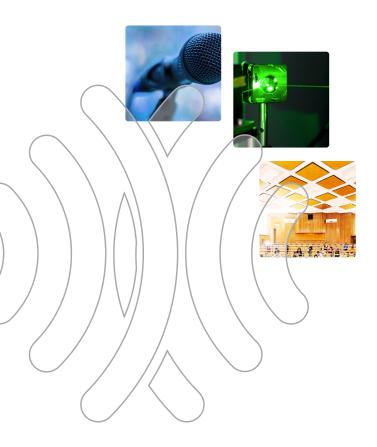


Architectural Acoustics • AV Design • Noise & Vibration

Operations and Command Centers

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

Grand Rapids, MI 15 Ionia Ave. SW, Suite 650 Grand Rapids, MI 49503 Local: (616) 241-5810

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Portland, OR 833 SW 11th Ave., Suite 925 Portland, OR 97205 Local: (503) 444-5656 client@abdengineering.com



High Tech and Room Acoustics for Privacy and Productivity

Acoustical Engineering and Audiovisual Design

Workplace studies cite noise as the most significant distraction impeding worker productivity. At ABD Engineering and Design, we consult with architects, interior designers, and facilities management professionals to create office acoustics and work environments that support performance, productivity, and collaborative workplace objectives. We design and engineer acoustical solutions to manage sound and control noise while preserving the productive, collaborative culture of open office plans, supporting productivity and privacy in



enclosed office plans, and the appropriate balance in mixed-use office designs. Our experience includes acoustical consultation and solutions for new construction, remodeling, and retrofit projects as well as consulting with office furniture industry leaders – testing and evaluating the acoustical performance of new office systems, products, and materials.

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.



Workplace Acoustics

Our consultants use an integrated approach to design office acoustical solutions that consider meeting and workspace functions, utilization, levels

of desired employee and team interaction, as well as office speech privacy and confidentiality needs. We consider architectural spaces, ceiling, wall, and floor coverings and materials and wall and partition heights, furniture systems, and sound masking technology. Using measured noise and

vibration data and ray tracing computer modeling technology, we analyze sound transmission, reverberation, absorption, reflection, diffusion, vibration, and other acoustical challenges to develop solutions that control, isolate, or mitigate noise and distractions from background speech, mechanical systems, technology, equipment, phones, paging systems, and other sources.

Audiovisual Systems Design

Our AV consultants are experts at designing meeting spaces that integrate custom AV systems into a comprehensive communications system. We work closely with clients to determine their specific technology needs and desires. We design systems for every level of utilization, from intuitive designs for casual users to sophisticated multimedia systems for dynamic stage productions and presentations. Costs are estimated

early in the process to bring needs and desires in-line with the budget. We create technical systems drawings and specifications, working with project architects to incorporate the equipment into their designs—and working with engineers to advise on AV equipment heat and electrical loads.

Experience

The ABD Engineering and 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 and Design is a leader in the acoustical and AV design community for creating sustainable facilities. Our professional engineers are well versed at meeting LEED prerequisite requirements for reverberation time, sound transmission, and background noise levels, and will guide you through the LEED certification process. 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.





Corporate/Office Selected Experience



ADP

Workstage Call Center Grand Rapids, Michigan

Alfred Taubman Center for Design Education

Argonaut Building Detroit, Michigan

Ali Jawad Building Oman, Jordan

Apple Listenting Room Morrisburg, Ontario

April Music, Inc.

Reference Room and Comparison Room Seoul Facility Testing Seoul, South Korea

Aqua Tower Chicago, Illinois

B.P. Oil Chicago Call Center

Chicago, Illinois

Blue Cross Blue Shield Steketee Building Grand Rapids, Michigan

Brilliance Audio Recording Studio Grand Haven, Michigan

Catalyst Partners LEED for Corporate Office Grand Rapids, Michigan

Commonwealth McCann Open Office and Conference Room Acoustics Detroit, Michigan

Consumers Credit Union Video Teller Speech Privacy Kalamazoo, Michigan

Consumers Energy Corporate Guidance Suite Jackson, Michigan

Delta Dental Farmington Hills, Michigan

Eckert WordellFoundry Reuse as Offices
Kalamazoo, Michigan

Erie Insurance

Headquarters Erie, Pennsylvania

Finish Line Indianapolis, Indiana

Flint Auto Auction Acoustics and Audio Flint, Michigan

Ford Maintenance and Operations Dearborn, Michigan

Forest CityKey Tower Corporate Headquarters
Cleveland, Ohio

Foth Engineering Open Office Speech Privacy De Pere, Wisconsin

Gerber Life White Plains, New York

GM Design Center Equipment Measurements Sterling Heights, Michigan

GM Studio Warren, Michigan

Haworth Headquarters Bookend Open Office Acoustics Holland, Michigan

Heifer International Multipurpose Room Closed Office Speech Privacy Open Office Speech Privacy Little Rock, Arkansas

Hemlock Semiconductor Corp. S-10 Conference Room Hemlock, Michigan

Herman Miller Project Phoenix Holland, Michigan

Maxim Integrated Roof Top Unit Mechanical Noise and Vibration Beaverton, Oregon

Meridian

Conference Room Closed Office Speech Privacy Grosse Pointe Farms, Michigan Michigan Turkey

Offices and Conference Rooms Wyoming, Michigan

Mid America Asset Management Spa/Urgent Care Noise Isolation River Forest, Illinois

Motorola Listening Room Morrisburg, Ontario

NCAA 4th Floor Open Office Acoustics Indianapolis, Indiana

Newell Rubbermaid Corporate Headquarters (Green Globes) Kalamazoo, Michigan

Peoples Bank Office Acoustics Medford, Oregon

Perrigo Corporation Allegan, Michigan

Steelcase Design Studio Leadership Community Space Acoustics Grand Rapids, Michigan

Target Corporation Headquarters Minneapolis, Minnesota

The RoundFitness Center Acoustics
Beaverton, Oregon

The Shops at Nanuet Fitness Center Noise and Impact Isolation Nanuet, New York

Toyota Technical Center Saline, Michigan

Triangle Associates Inc.Corporate Office Remodel Grand Rapids, Michigan

US BankRookery Open Office
and Conference Room Acoustics
Chicago, Illinois

Waters Building Offices and Hotel Renovation Grand Rapids, Michigan

Zune The Depot Los Angeles, California

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



Project Name University of Illinois - Center for Innovation in Teaching & Learning:

Armory Innovation Studio

Location Urbana-Champaign

Year Completed 2017

ABD Staff Erik J. Geiger

Description

The Innovation Studio has been designed to collect and analyze data about student learning in collaborative, project-based environments. Working with students and faculty to design and develop research initiatives aimed at understanding how students learn through peer interaction, self-directed exploration, and purposeful metacognitive reflection, the systems in this space will allow for high level ideation and visualization of concepts, along with fostering collaboration between those in the room and across the world.

Much the like the DMDII space above, the CITL Innovation Studio functions much like a traditional Command & Control Center by allowing faculty and students to share and monitor multiple sources of information simultaneously, using an interactive video-wall display, and interactive touch-table which can be displayed on the multi-window display or used to control information on the video-wall, and used simultaneously to connect remote students and faculty in-session using audio and video-conferencing. Activities may be captured via local cameras and recorded for later review or de-brief.





Project Name Ally Financial - One Detroit Center

Location Detroit

Year Completed 2016

ABD Staff Erik J. Geiger

Description

When Ally relocated from the GM Renaissance Center to One Detroit Center, the Network Operations Center moved too. To accommodate this move, a larger videowall was planned that incorporated much of Ally's existing infrastructure and back end. The addition of comprehensive room-wide audio conferencing and better control integration allowed for better room systems management and information display as well as allowing collaboration with other teams and locations without any NOC users needing to leave their workstations to participate.



Project Name UI Labs, Digital Manufacturing and Design Innovation Institute: Connect Center

Location Chicago, IL

Year Completed 2015

ABD Staff Erik J. Geiger

Description

This space functions as a collaborative interface for users of the DMDII facility and spaces, which includes public/private partnerships between the University of Illinois – UI Labs, private enterprise and technology industries such as Rolls Royce and Lockheed-Martin, as well as the DoD and other public research entities. This system allows for in-depth sharing of information, with simultaneous tie-in of local and remote computers and servers with multiplatform video and audio conferencing and on screen multi-touch control, annotation and storage of content – while meeting UI Labs' and their partners' security requirements. Rather than a typical command and control space for a system or infrastructure, the UI Labs space can be thought of as a command and control space for projects.



Project Name Cook County Emergency Operations Center for Department of Homeland Security (DHSEM)

Location Oak Forest, IL

Year Completed 2014

ABD Staff Erik J. Geiger

Description

Cook Country relocated their EoC to a historic building on the Oak Forest campus of one of the county's former hospitals. The new center, funded in part by the DHS, included a new operations center with attendant break-out rooms for planning, logistics, executive conference rooms and JIC for media briefings. My role was project management and oversight of the design team handing the AV and acoustics for the center.







Project Name Detroit Public Schools

Location Detroit, Michigan

Scope 18 Schools and 1 Security Command Center

Year Completed 2011

Description

ABD Engineering & Design was brought in by Albert Kahn Family of Companies to design comprehensive classroom technology solutions for 6 new schools, 12 school renovations, and the Security Command Center. The district wanted the technology to remain uniform across all the schools, and they wanted it to interface seamlessly with the new high-tech Security Command Center.

As part of our schematic design, ABD Engineering & Design made renderings of the Security Command Center video control booth (below) and the press release room (above). In the event of an emergency, Detroit Public Schools will be able to host live press conferences that broadcast to local television stations as well as the other schools in the district.







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.

- Acuity Insurance, Corporate Headquarters, Sheboygan, WI
- Brainium Studios, Open Office, Portland, OR
- Finastra, Workplace, Portland, OR
- Ford Motor Company Conference & Event Center, Dearborn MI
- GM Studio, Global Technical Center, Warren, MI
- Meijer, Corporate Headquarters, Grand Rapids, MI
- Newell Rubbermaid, Design Center, Kalamazoo, MI
- NW Natural, Headquarters, Portland, OR
- PacificSource Health Plans, Headquarters, Springfield, OR
- Varonis Systems, Open Office, Portland, OR
- Warner Norcross + Judd, Legal Offices, Grand Rapids, MI



Erik J Geiger, CTS-D

Director of Audiovisual eqeiger@abdengineering.com



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.

- People's Bank Headquarters, Medford, OR
- Warner Norcross + Judd, Legal Offices, Detroit and Grand Rapids, MI
- Abbott Labs, Experience Center, Green Oaks, IL
- Ally Financial, One Detroit Center, Detroit, MI

- Borg Warner, Auburn Hills, MI
- Johnson Controls World Headquarters, Milwaukee, WI
- Mayer Brown Rowe & Maw, Chicago, IL
- Mayer Brown Rowe & Maw, Chicago, IL
- Northern Trust, Conference Center, Chicago, IL

- Perkins+Will Chicago, Chicago, IL
- Presence Health Headquarters, Chicago, IL
- Pritzker/Hyatt, Corporation Headquarters, Chicago, IL
- Roche Diagnostic, VIP & Training Center, Indianapolis, IN



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.

- OR Treasury Resiliency Project, Salem, OR
- Community Transit Casino Road Facility, Everett, WA
- TriMet Columbia 10, Portland, OR
- Cabot Microelectronics, Hillsboro,
 OR
- Applied Materials, Portland, OR
- Brewery Blocks Building 1, Portland, OR
- Hatfield Courthouse, Portland, OR
- Maxim Integrated, Beaverton, OR
- Daimler Wind Tunnel Facility, Portland, OR
- Saalfeld Griggs Law Firm, Salem,



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
Architectural Acoustics • AV Design • Noise & Vibration



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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