

erinç odabaş

mezzo stüdyo architectural acoustics,
design and consulting

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erinc@mezzostudio.com

experience

acoustical consultant, mechanical engineer, 2010 -

mezzo stüdyo architectural acoustics, design and consulting

ikizler building, K1-6C, technopolis, Ankara, Turkey

+903122101825

info@mezzostudio.com

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involved projects

developer

acoustic diffusers, RD

mezzo stüdyo

2011 - 2013

prediction theories on scattering and absorption characteristics of schroeder diffusers by modifying configuration of the diffuser by means of adding micro perforated panels

acoustic diffuser design, optimization on absorption and scattering characteristics for specific purposes

geometry and component configuration of schroeder diffusers as space diffusers to enhance low frequency response to absorption

acoustical consultant, developer

room acoustics

OTEST, METU

2011 - 2012

jury listening room, a listening environment for evaluations of automotive noise, TOFAŞ

architectural acoustics design of interior

sound insulation design to reduce the impact of environmental noise sources in the vicinity of the listening environment

sound quality

OTEST, METU

2013 - 2016

identification of sound quality metrics for correlations between objective measurements and customer perception regarding interior car noise, TOFAŞ

identification of sound quality metrics in different car segments and models

assistance to on-road and listening room jury evaluations to capture customer perception regarding car interior noise on different driving conditions

implementation of correlation analysis to relate objective and subjective test data for future target setting procedures

local non-key expert (LNKE)

environmental noise

europaidd/131352/D/SER/TR

2014 - 2015

technical assistance for implementation capacity for the environmental noise directive

assistance for environmental noise mapping, noise mitigation measures and action planning to be implemented in related departments of municipalities

current environmental noise predictions for industrial, airport, recreational, railway and road traffic noise in preselected 10 pilot areas in Turkey

decision making for noise mitigation measures and action planning to reduce the impact of environmental noise in pilot areas' agglomerations

education

Yeditepe University, İstanbul, Turkey

Ph.D 2013 -

mechanical engineering

cgpa

3.92/4.00

thesis proposal

"noise generation characteristics of snake skin under light contact conditions"

supervisor

assist. prof. dr. a. bahadır özcan

Middle East Technical University, Ankara, Turkey

M.Sc 2009 - 2012

mechanical engineering

cgpa

3.57/4.00

thesis submitted

"prediction on absorption and scattering characteristics of acoustic diffusers with micro perforated panels"

supervisor

prof. dr. mehmet çalışkan

Middle East Technical University, Ankara, Turkey

B.Sc 2004 - 2009

mechanical engineering

cgpa

3.03/4.00

publications

articles in ISI-INDEXED journals

- Sü Gül, Z., Odabaş E. & Çalışkan M. "Comparative Evaluation of Ray Tracing and Diffusion Equation Modeling in Room Acoustics Design of Subway Stations." *Acoustics Australia*, 48.1 (2020): 93-105. SCI-E
- Sü Gül, Z., Odabaş E., Xiang N. & Çalışkan M. "Diffusion Equation Modeling for Sound Energy Flow Analysis in Multi Domain Structures." *Journal of Acoustical Society of America*, 145.4 (2019): 2703-2717. SCI (special issue cover page image) "Special Issue on Room Acoustics Modeling and Auralization"

conference presentations and refereed proceedings

- Odabaş, E. & Caliskan, M. "Vibration Isolation System Design for a Scanning Electron Microscope." *Proceedings of 13th National Acoustics Congress (TAKDER)*, Diyarbakır, Turkey, 17-18 October 2019.
- Odabaş, E. & Caliskan, M. "Raised Steel Platform Design for an Air Handling Unit." *Proceedings of 13th National Acoustics Congress (TAKDER)*, Diyarbakır, Turkey, 17-18 October 2019.
- Sü Gül, Z., Sinal, Ö. & Odabaş, E. "Acoustical Comfort in Technology Offices: The Case of BASF Turk Office." *Proceedings of 13th National Acoustics Congress (TAKDER)*, Diyarbakır, Turkey, 17-18 October 2019.
- Sü Gül, Z., Odabaş E. & Çalışkan, M. "Single versus Multi-domain Analysis in Diffusion Equation Modeling for Sound Field Analysis of Distinct Room Shapes." (Invited Paper) *Proceedings of 21st International Congress on Acoustics (ICA 2019)*, Aachen, Germany, 9-13 September 2019.

- SÜ GÜL, Z., Odabaş E. & Çalışkan, M. "Acoustical Assessment of Subway Stations by Diffusion Equation Modeling." Proceedings of Wespac 2018: the 13th Western Pacific Conference on Acoustics, New Delhi, India, 11-15 November 2018.
- SÜ GÜL, Z., Odabas, E., Nursal Meriç, I. & Caliskan, M. "Acoustical Design of İzmir Opera House." International Symposium on Musical and Room Acoustics (ISMRA2016), La Plata, Buenos Aires, Argentina, 11-13 September 2016.
- Odabas, E., Bakirci, Ş., E. & Caliskan, M. "Noise Control and Mapping due to Noise Radiation from the Energy Center in a Winter Sports Facility." Proceedings of 10th National Acoustics Congress (TAKDER), YTU, İstanbul, Turkey, 16-17 December 2013.
- Odabas, E., Caliskan, M., Girgin Z. & Ozkan A. (2013, September). "Acoustical Design and Experimental Validation of an NVH Listening Room." Internoise 2013, Innsbruck, Austria, 15-18 September 2013.
- Odabas, E. & Caliskan, M. "Incorporation of Double Leaf Micro Perforated Panels into Schroeder Diffusers as a Space Absorber." InterNoise 2012, NYC, NY, USA, 19-22 August 2012.
- Odabas, E., Su Gul, Z., & Caliskan, M. "Acoustical Design of Dogramacizade Ali Pasa Mosque and Assessment of Acoustical Characteristics by Real Size Measurements." Proceedings of 9th National Acoustics Congress (TAKDER), METU, Ankara, Turkey, 26-27 May, 2011.
- Unal, A., Odabas, E., & Caliskan, M. (2011, May). "Design of Folded Horns by Linear Graph Technique and Finite Element Modeling." Proceedings of 9th National Acoustics Congress (TAKDER), METU, Ankara, Turkey, 26-27 May, 2011.

other publications

master thesis

- "predictions on absorption and scattering characteristics of acoustic scatterers modified with micro-perforated panels", september 2012, middle east technical university (METU), ankara, turkey

professional affiliations

INCE, USA	2012 -
mmo membership	chamber of mechanical engineers, 2010 -
takder	Acoustical society of turkey, 2011 -

memberships

METU bridge society	2004 - 2006
METU music society	2004 - 2006
METU musical society	music director, orchestra director, bass player, 2009 - 2011

languages

excellent level of written and spoken Turkish (native)

excellent level of written and spoken English

skills

acoustic design tools	odeon, catt acoustics, insul, zorba, dirac, imni, candaA
cad tools	autocad, keycreator, sketchup, solidworks
programming languages	python, matlab, c
modelling tools	matlab, mathcad, comsol multiphysics
editing tools	ms office, adobe illustrator, adobe photoshop, corel drw
research interests	architectural acoustics vibration isolation and noise control theoretical approaches in physics
personal skills	playing piano for 25 years, playing bass guitar for 19 years composing, arranging, performing music

drawing, graphical and visual arts