Troy Michael Bouman, PhD, MSE, MBA

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EDUCATION

Doctor of Philosophy in Mechanical Engineering May 2021
Michigan Technological University, Houghton, MI
Focus: Acoustics, Vibrations, and Dynamic Systems
Awards: -Graduate School's Outstanding Scholarship Award
-1st Place – Best Overall Paper at 2017 SAE Noise and Vibration Conference

Master of Science in Mechanical Engineering GPA: 3.89 May 2016
Michigan Technological University, Houghton, MI
Awards: -Outstanding Graduate Student Teaching
-Best of Show Award at 2015 SAE Noise and Vibration Conference
-Excellence in Noise Control from INCE 2016
Certificate: LabVIEW Associate Developer

Master of Business Administration GPA: 3.95 April 2014
Grand Valley State University, Grand Rapids, MI
Beta Gamma Sigma International Honors Society
Award: Dean's Citation for Academic Excellence
Certificate: Managing Business, Government, and Public Policy, Washington, D.C.

Bachelor of Science in Mechanical Engineering GPA: 3.80 May 2012
Michigan Technological University, Houghton, MI
Minors: Electrical Engineering & General Music

INDUSTRY EXPERIENCE

Bouman Acoustics LLC, Houghton, MI Fall 2013-Present
Owner/Principle - Supporting businesses with acoustic and vibration consulting services

Great Lakes Sound and Vibration, Houghton, MI Feb 2022-Sep 2024
Senior Engineer – Supporting government dynamic systems projects

Michigan Technological University, Houghton, MI May 2021-May 2023
Adjunct Assistance Professor – Teaching advanced courses in acoustics and signal processing
Award: Top 10% in university wide student evaluations spring 2022

Roush Industries, Livonia, MI Summer 2016-Summer 2019
NVH Engineer – NVH consulting for a variety of customers in many sectors
Certificate: Recognition for extraordinary performance in 2017

PUBLICATIONS

Bouman, T. "Development of the Carbon Nanotube Thermoacoustic Loudspeaker", Open Access Dissertation, Michigan Technological University, 2021. https://doi.org/10.37099/mtu.dc.etdr/1204

Bouman, T., Barnard, A., Alexander, J., Continued Drive Signal Development for the Carbon Nanotube Thermoacoustic Loudspeaker Using Techniques Derived from the Hearing Aid Industry, *SAE NVH Conference Proceedings*, 2017.
First place paper in SAE NVC Best Student Paper Competition

Bouman, T., Barnard, A., Asgarisabet, M., Experimental quantification of the true efficiency of carbon nanotube thin-film thermophones, *Journal of the Acoustical Society of America*, 2016.

RESEARCH

Michigan Technological University – Dr. Andrew Barnard 2014-2021
Research Assistant – Development of carbon nanotube thinfilm speakers