Troy Michael Bouman, PhD, MBA

Troy@TroyBouman.com • 616.990.2699 • www.TroyBouman.com

EDUCATION

Desta of Dhilosophy in Mashaniasl Engineering	Mar 2021
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	May 2010
Awarda, Outstanding Craduate Student Teaching	
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	11pm 2011
Bata Comme Signe International Honore 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	5
Minors: Electrical Engineering & General Music	
Million, Electrical Englicering & Ceneral Made	
INDUSTRY EXPERIENCE	
Michigan Technological University, Houghton, MI	May 2021-Present
Research Engineer – Supporting government and industry dynamic system projects	-
8 11 88 55 51 7 1 7	
Bouman Technologies, Houghton, MI	Fall 2013-Present
Owner - Supporting small businesses with FEA modeling. IT solutions and web develop	oment
Owner - Supporting sinal businesses with I LA modeling, IT solutions, and web develop	
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	
Gertificate. Recognition for extraordinary performance in 2017	
Caterpillar Inc., Peoria, IL	Summer 2011
Internship – Validation and repair of heavy equipment via noise and vibration solutions	
DIDIICATIONE	
$\frac{PUBLICATIONS}{P_{2}} = \frac{T_{1}}{P_{2}} = \frac{1}{P_{1}} + \frac{1}{P_{2}} +$	τ , 1 /τ 1 ,'
Bouman, I., Barnard, A., Alexander, J., Continued Drive Signal Development for the Carbon N	vanotube Thermoacoustic
Loudspeaker Using Techniques Derived from the Hearing Aid Industry, SAE NVH Confe	erence Proceedings, 2017.
First place paper in SAE NVC Best Student Paper Competition	
Pourson T Remard A Accorrigable M Execution and Execution of the trace of the tra	anton nonotribo this fil
Douman, 1. , Barnard, A., Asgarisabet, M., Experimental quantification of the true efficiency of	carbon nanotube trim-min
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	
Key Publication: Bouman, T., Barnard, A., Asgarisabet, M., Experimental quantification of the true ef	ficiency of carbon nanotube
thin-film thermophones, Journal of the Acoustical Society of America, 2016.	
Michigan Tachnologial University - Drof. Charles Van Vargan	2011 2012
multigan recimological University – FIOL Charles Vall Narsen	2011-2012

Research Assistant – Testing the use of a high speed camera to gain input force into violin body