



## SIGNALYSIS NEWS

MAY / JUNE 2018

*To deliver the ultimate solution experience to our customers with unsurpassed integrity!*

I was doing some overdue yard work (believe it or not) when the shovel I was using broke. Because this had happened before I knew the drill. This particular brand comes with a "lifetime warranty" sticker, and so I exchanged it for another of the same brand. I assume that many consumers, like myself, purchased this tool because of the warranty sticker - anything with a lifetime guarantee has to be high quality, right?? But I suspect the manufacturer is literally banking on the fact that buyers will forget about exchange policy when the sticker (strategically places on the metal shovel head) wears off. So, while I'm not a fan of the quality associated with this particular product, I'll keep trading my old shovel in for a new one as long as they want to keep handing them out.

So, what does this have to do with you? After all you don't make simple garden tools. My point exactly. Manufacturers like you don't have the luxury to hope that warranty claims are too much of a hassle for dissatisfied customers. And unlike simple shovels - noise, vibration, and other defects are disastrous deal-breakers for suppliers in the automotive, medical, appliance, and similar industries.

Capturing defects before products leave the manufacturing floor keeps you in good standing with customers, limits recalls and warranty claims, and advances the reputation of your company and product(s) to increase sales. Additionally, end of production testing provides tangible feedback for design enhancements targeting next generation product quality goals.

Thank you for allowing me to get up on my soapbox. The quality of your product speaks volumes about your company. Let Signalysis help you to be sure that you have a good story to tell.

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Visit our Website

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**Only 3 Days Left to Register for our  
Grand Rapids Seminar!**

# NOISE & VIBRATION QUALITY INSPECTION TEST

TUESDAY, JUNE 12, 2018  
Grand Rapids, MI  
9:30 AM - 3:00 PM

## OVERVIEW

This FREE one-day session provides a basic understanding of sound and vibration principles along with a practical understanding of end-of-line quality inspection systems. The seminar also includes an introduction to Signalysis quality inspection software, SigQC™.

## WHAT'S INCLUDED

- There is no cost to attend.
- A complimentary lunch is provided.
- We invite you to bring functioning parts (good and bad) for discussion following the seminar. Please contact [Steve Johnson](mailto:Steve.Johnson@nvhtt.com) to arrange this prior to the seminar.

## LOCATION

**SpringHill Suites Marriott Grand Rapids Airport**  
5250 28th St SE  
Grand Rapids, MI 49512  
Tel: 616.464.1130

Registration & Information  
Steve Johnson  
[Steve.Johnson@nvhtt.com](mailto:Steve.Johnson@nvhtt.com)  
248.761.6133



## AGENDA

This Seminar runs from 9:30 AM – 3:00 PM

### Morning Session

- Welcome to the Seminar!
- Introduction to Sound & Vibration
- Hands-on Example
- Real-World Applications

### FREE LUNCH!!!

### Afternoon Session

- More Real-World Applications
- Metric Analysis & Development
- Statistical Tools & Data Analysis
- Q&A

## Upcoming Seminars

Mark your calendar now for our  
Noise & Vibration Inspection Test  
Seminars coming to a city near you!

Our 1-day seminars are presented at no  
cost and include a free lunch!

**Rochester Hills, MI:** August 21  
**Gary, IN:** November 6

For reservations or questions contact:  
**Steve Johnson**  
[Steve.Johnson@nvhtt.com](mailto:Steve.Johnson@nvhtt.com)  
248.761.6133



## IQC Automated Hammer

Eliminate Manual Inconsistency & Ensure  
Impact Test Quality

The Signalysis Automated Hammer delivers a controlled, reliable

and repeatable testing strike. Ideal for non-destructive testing and production line testing applications (including brake rotor testing, powder metal and similar production-line testing) the hammer eliminates double strikes and inconsistent forces ensuring accurate test results. Durable and versatile, the hammer can be modified to meet your specific impact-test applications.



### Benefits

- Delivers a Reliable and Consistent Impact Force
- Software Independent
- Easy to Reach Difficult Locations
- Ensure Testing Consistency & Accuracy
- Full Signalysis Support
- Customizable for your Specific Applications
- Hands-Free Modal Testing

Request Information

**DID YOU KNOW?**  
We really do have a rocket scientist on our staff... just in case.

## Meet Our New Co-Ops!



**Tim Iles** is studying mechanical engineering at the University of Cincinnati. Today he is involved in many aspects of Signalysis, ranging from design and modeling, along with Gage R&R, production, and service. Tim has experience in automotive manufacturing as a process engineer and hopes that experience will bring another perspective into Signalysis products.



**Nick Cagle** is a junior computer science major at the University of Dayton. He will be working with the Signalysis software team during his co-op session,

Outside of work Nick enjoy playing video games and hanging out with friends. Nick is also a big basketball fan and likes to take in the games on television and is always up for a pick-up game.

# Automotive Test System: Sunroofs



The Signalysis Sunroof Test System is designed to handle complex & dynamic noise issues associated with power sunroofs and roll shades. Using motor current and hall effect sensor counts a detailed motion/location event matrix is created that encapsulates customer complaints. This matrix allows unique GO/NO GO metrics to be developed which will result in high customer satisfaction ratings.

[Read More!](#)

## Bumper to Bumper Inspection

From steering columns and power seats to sunroofs, breaks, drive trains and beyond, Signalysis bumper-to-bumper [automotive IQC Test Systems](#) help reduce warranty claims, recalls, and lost customers.

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## An Inside Look at Where the Magic Happens

Are you interested in a behind the scenes tour of Signalysis? If so, this is your chance to be introduced to some of the people who work to solve the industry's product noise and vibration quality issues.

Watch the Video



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## 4 Questions 4: Matt Tucker



*Matt (on the left) is our newest Software Engineer. His responsibilities include maintaining and enhancing Signalysis SigQC and SigMotor programs - along with a few other projects. Let's take a few minutes to learn a little more about Matt with four quick questions...*

### **Can you tell us a little about yourself?**

I was born in Lima, Ohio. My mom is a nurse and my dad is a doctor. I have one older brother. I went to Shawnee High School and spent most of my time playing soccer, tennis or the drums. I went to college at the University of Cincinnati and just graduated with a Computer Science degree and a minor in Mathematics.

### **What's something new you learned while working at Signalysis?**

When I started at Signalysis I barely knew anything about programming. They took me in (I assume mostly based on my good looks) and honestly taught me so much about how to program and good coding practices. I owe a lot of my industry talent to them.

### **What do you like best about working for Signalysis?**

I really enjoy the family aspect of Signalysis. The people I work with are my friends and

that creates a really good environment. I also find the work we do really interesting - all the complicated science and math that goes into doing what Signalysis does is really fascinating to understand.

### OK, last question. What's something not many people know about you?

One somewhat strange thing about me is that I can read the Korean language fairly well, but mostly have no idea what I am saying. Which I guess would be like being able to read English but not understanding what you are saying. My hobbies mostly include hanging out with friends and having fun, playing and watching sports, and of course - playing video games.



## Golfing Fore Charity

Neil "Bubba" Coleman will hit the links again this year in support of your local charity. Send him an [e-mail](#) with details about your charity golf outing. If possible, we'll sponsor a team with Neil and three golfers of your choosing.

Don't wait. Neil's availability (like his back swing) will go fast!



## Hooked on Vibration!

Did you receive your September 2017 issue of *Sound & Vibration* magazine? If so flip to page 8 and read how our own "NASA Bob" Coleman got his start to a stellar career and his many contributions to the industry. Don't have a copy of the magazine? That's OK you can read it [here](#).

Remember, nobody knows vibration like Bob Coleman; and we're making copies of his book available to you while they last. [Learn more here](#).

*"Experimental Structural Dynamics: An Introduction to Experimental Methods of Characterizing Vibrating Structures"*

Request a Copy



To deliver the **ultimate solution experience** to our customers  
with **unsurpassed integrity!**

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