



## SIGNALYSIS NEWS

*Delivering the Sound of Silence*

February 2016

Depending on how much stock you put in groundhogs, Spring is either just around the corner or still six weeks away. Conventional wisdom says that it's more likely somewhere in between. Speaking of "stock", I'm sure that we are all keeping an anxious eye on the global economy. As oil price and investments continue their wild ride, manufacturers might be tempted to believe that a repeat of 2008 is on the horizon. If we learned anything during those lean times it was that for the most part, business as usual was no longer an option.

From the manufacturing floor to the donuts in the break room, manufacturers began to scrutinize all areas of operation to slash waste, eliminate rework, and cut excessive spending. As a result product quality rose, customer satisfaction climbed, and warranty claims were reduced.

Is economic prosperity just around the corner; or do we still have weeks of economic winter with which to contend? Again, conventional wisdom says that the answer lies somewhere in between. But for manufacturers, regardless of size or industry, the key will be a continued commitment to quality products and customer satisfaction.

Speaking of customer satisfaction... at [Signalysis](#) our mission is: *To deliver the **ultimate solution experience** to our customers with **unsurpassed integrity!*** We pride ourselves in our unparalleled responsiveness and willingness to always go the extra mile. We hope that it shows.

Sincerely,

Neil Coleman  
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Visit our Website

## CUSTOM SOFTWARE DEVELOPMENT

Did You  
**KNOW** 

Did you know that Signalysis designs and develops custom [test-system software](#)? Including [LabVIEW](#)  
We develop to your exact specifications:

- Documented source code
- Leading-edge software tools & hardware

- interfaces
- Industrytested & proven object libraries & routines

Read more [here](#)

## CASE STUDY: AUTOMOTIVE HVAC

*Heating, Ventilation, and Cooling systems are vital to today's driving experience. With customer satisfaction tested with each push of a button, noise, vibration, and failure are not an option.*

### Challenge

Develop a functional test system that cycles HVAC assemblies through all of their functions to validate quality.

### Calling in the Experts

The customer, a Tier 1 automotive supplier, called upon Signalysis to develop an automated quality test system capable of evaluating 100% of the manufactured units.

Testing Goals:

- Provide inspection for all manufactured HVAC units
- Meet cycle time requirements
- Store data in an SQL database by SN and time/date
- Provide daily production reports
- Serve Data for Statistical Process Control

Read the results [here](#).

## 4 QUESTIONS 4... ANDREW WHITELY



Andrew Whitely wears many hats at Signalysis. Much of his time is spent traveling to customer sites installing test systems. We were able to pin Andrew down recently just long enough to get his answers to four quick questions...

### 1. Hi Andrew. Can you tell us a little about yourself?

*I was born in Fort Sill, Oklahoma where my father was stationed at the military base. When I was about three, we moved to Ohio. After graduating from Wheelersburg High School I attended Ohio University. I later transferred to Morehead State University where I completed a bachelor degree in Physics with a minor in mathematics.*

### 2. Physics and math is a good foundation for working at Signalysis. What are your responsibilities with the company?

*Like many of us here I wear several hats. Most of my time is devoted to Project Management and maintaining excellent customer service. Additionally I am involved in SigQC programming, software integration and do our electrical wiring work.*

### 3. You travel a bit for the company. Have you had any interesting experiences?

*Probably the most interesting thing I'm asked about is my trip to Shanghai, China. I visited several customer sites but was also able to take in some of the tourist sites as well. I rode one of the fastest elevators in the world at the Shanghai*

World Financial Center. We were at the observation deck, 100 stories up in under a minute. I also rode the Maglev –the magnetic levitation train.

**4. OK last question. What do you enjoy doing outside of work?**

*I like to ride my motorcycle whenever the weather allows. I also play video games and go to the cinema fairly often. I enjoy listening to a wide variety of rock music from the 60s to present day; and I also play the guitar.... a little.*

## ASK THE GEEK



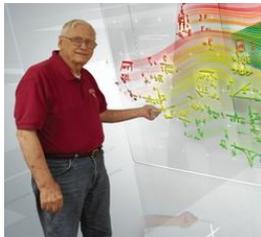
**Question:**

*"I've learned that SigQC has a feature for creating post processor templates. Can you explain?"*

**The Signalysis Geek Responds:**

SigQC version 14.3.2.1 and newer supports a feature that we call *Post Process Design-Time Mode*. This allows intermediate results to be viewed interactively and allows templates to be generated. Follow this [link](#) to for a detailed explanation including a PDF that you can download.

## AND FINALLY...



Signalysis Senior Applications Specialist Robert E. Coleman has released his book "Experimental Structural Dynamics: An Introduction to Experimental Methods of Characterizing Vibrating Structures".

As an Introduction to Experimental Methods of Characterizing Vibrating Structures, this book is a valuable tool toward developing an understanding of the theory underlying the simple vibratory process, as well as developing the concepts allowing application of this understanding to the analysis of any complicated vibratory process for the most complex structure.

Go [here](#) to read more and see how you can get a copy.

Visit our Website

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