



## ANSYS Announces winner of 2017 hall of fame competition

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PITTSBURGH, Jan. 25, 2017 /PRNewswire/ -- From improving automotive fuel injection systems to capturing ocean energy to designing cutting-edge transportation systems, the winning entries of the annual [ANSYS](#) (NASDAQ: ANSS) [Hall of Fame](#) competition highlight how engineers are solving complex, time-consuming and expensive challenges with engineering simulation software.

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The contest gives simulation users the opportunity to showcase their simulation and engineering skills by producing striking images and animations. The submissions were divided into three categories – corporate, academic and for the first time, startup.

The corporate winners are:

- [Delphi Automotive Systems Luxembourg](#) specializes in technology that integrates safer, greener and more connected solutions for the automotive sector. Engineers used advanced features of ANSYS software to optimize nozzles for high-pressure diesel injection to improve fuel burn and increase energy efficiency.
- [HENN](#) develops and produces innovative connection systems for automotive intercooler and coolant systems. Using ANSYS solutions to compute structural deformations, stresses and pressures under realistic conditions, HENN created custom designs in just a few days instead of weeks, reducing the number of prototypes and increased product quality while reducing production costs.
- [Jacobs Analytics](#) is the first winner in the new startup category. The company employed ANSYS software to ensure that the heat in a smoker was consistent so that the food was not under- or over-cooked. Jacobs modeled hundreds of concepts and optimized the smoker design using simulation before building any prototypes, which saved tens of thousands of dollars in prototypes and testing. The company developed a higher quality product in a shorter time for less money.

The academic winners are:

- [Cardiff University](#) researchers used ANSYS solutions to model the wakes of tidal stream turbines that can generate reliable, renewable energy. The wake of one turbine affects the operation of tidal turbines located downstream and wake simulation assists with placement of the turbines to ensure that installations are efficient.
- The [University of California, Irvine](#) HyperXite student team is helping to design a new futuristic form of transportation. The Hyperloop is a proposed high-speed mode of ground transportation that can propel riders at speeds of up to 700 miles per hour using pods in low-pressure tubes. The team used ANSYS structural, fluids and electromagnetic engineering simulation software, as well as high-performance computing, to precisely craft a safe, aerodynamic design for the pod.
- [Dartmouth College](#) researchers used ANSYS solutions to model circuit components to test hundreds of possible design combinations instead of relying on manual testing and prototyping multiple designs. Utilizing ANSYS simulation software, researchers tested design combinations quickly and efficiently, a capability essential in designing the things in the Internet of Things.

"I am always amazed by what our customers create using simulation and the quality of entries we receive each year for the ANSYS Hall of Fame," said Mark Hindsbo, vice president of marketing, ANSYS. "Year after year our customers envision new inventive products that shape the future across all industries. ANSYS simulation solutions allow insights into actual product performance and we have no greater satisfaction than seeing how engineers use our software to develop truly amazing products."

View the ANSYS Hall of Fame Archive at <http://www.ansys.com/HOF> for submissions from previous years' competitions.

### About ANSYS, Inc.

ANSYS is the global leader in engineering simulation. We bring clarity and insight to our customer's most complex design challenges through the broadest portfolio of fast, accurate and reliable simulation tools. Our technology enables organizations in all industries to imagine high-quality, innovative and sustainable product designs that have an accelerated time to market. Founded in 1970, ANSYS employs almost 3000 professionals, more than 700 of them with PhDs in engineering fields such as finite element analysis, computational fluid dynamics, electronics and electromagnetics, embedded software, system simulation and design optimization. Headquartered south of Pittsburgh, U.S.A., ANSYS has more than 75 strategic sales and development locations throughout the world with a network of channel partners in 40+ countries. Visit [www.ansys.com](http://www.ansys.com) for more information.

ANSYS also has a strong presence on the major social channels. To join the simulation conversation, please visit: [www.ansys.com/Social@ANSYS](http://www.ansys.com/Social@ANSYS)

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