



Mechanical Engineering  
Academy of Distinguished Alumni

## **Julio C. Guerrero, Ph.D.**

*Distinguished Mechanical Engineer, 2015*

MSME, The University of Texas at Austin, 1995  
Ph.D., Mechanical Engineering, 1998

I think Life is beautiful, and engineers make Life more beautiful than it already is. Two of the things that make us humans are that we can love and we can create. Engineering is connected to one of those two things, the ability to create. I love engineering with passion, and I want to inspire millions of young students and engineers worldwide to feel the way I do about life and our profession.

The Mechanical Engineering Department at The University of Texas at Austin is one of the organizations that has influenced and inspired me the most to feel this way about life and my profession. UT Austin's ME faculty members' passion for our profession, teaching, and researching has inspired thousands of students and engineers like myself around the world, and it continues to do it. Globalization is part of my daily life, both professionally and personally. My fluency in several languages, my experience working with corporations and academia in research and product development on four continents, and working with people from more than 50 nationalities, give me a unique perspective to assess the impact that UT Austin ME and my advisor Dr. Delbert Tesar have had, and continue to have in Mechanical Engineering worldwide. I grew up and lived in Lima-Perú until I was 28 years old.

Things that inspired me to be an engineer: the man landing on the moon in 1969; visiting when I was a child with my father the highest train in the world—Infiernillo in Perú—as well as the Hydroelectric plants in the Andes—Mantaro; and visiting SIMA, the largest Peruvian shipyard in Callao-Peru, with my high school

class when I was 12 years old. Life is beautiful; I have worked as an engineer in organizations related to all those technologies.

I now work for Exponent. I assist and guide corporations globally with their technology development needs. I have worked in research and development (R&D) and business development in Draper Laboratory in Cambridge, Massachusetts; Schlumberger Research (SLB) in Houston, Texas and Cambridge, Massachusetts; and FIAT-IVECO in Torino, Italy. My technical expertise includes analyzing, designing, and developing mechanical systems, including those for harsh and extreme conditions. I am an owner of over 20 mechanical system patents worldwide. I earned my master's and Ph.D. degrees from The University of Texas at Austin and was awarded the honorary doctoral degree from *Universidad Nacional de Ingeniería* in Lima-Peru in 2015. In 2014, I became a member of the Pan-American Academy of Engineering (32 countries). I was the 2015-2016 president of the American Society of Mechanical Engineers (ASME), an organization of almost 140,000 engineers in 150 countries.

I have also collaborated with professors and graduate students and lectured in engineering at MIT. At SLB, I established numerous research collaborations with professors and students from universities and research centers around the world and led the 2,400-member SLB/Eureka Mechanical Engineering Community in 3 continents for 5 years. I love skiing and swimming, history, economics, and Renaissance Italian art.