

**SEMINAR: System-level Validation: The difference maker in a successful semiconductor**

Presentator: **Scott Gulas**

Texas Instruments

DATE: September 22, 2014 6:30 – 8:30 pm

PLACE: University of Puerto Rico, Mayaguez Campus  
Celis 003-005

**Abstract:**

"It just works." You hear it all the time, as it has become synonymous with Apple products. As product designers from companies around the world integrate chips from Texas Instruments and other semiconductor vendors, they all strive for their customers to utter those same sacred words - "it just works." I know I appreciate that the plane I flew to Puerto Rico and the braking system in the car that brought me to UPR "just worked." Vehicles are integrating far more electronics than ever before, and the misbehavior of a chip can mean the difference in your screen annoyingly not dimming after the sun goes down, or your brakes not working when you need them most. In this talk I'll examine the difference between quality, reliability, and "misbehaviors" in end applications. We'll look at how misbehaviors can mean the difference in our chip being selected for a new product, or designed out in favor of the competition. I'll address how production oriented test, built-in-self-test, electrical characterization, and system-level validation all play their role in guaranteeing a TI product works in applications ranging from cell phones to airplanes.

**Biographical Notes:**

**Scott Gulas earned his BSEE from The University of Florida in 2003, and his MSEE from Texas Tech University in 2004. Since joining Texas Instruments as an intern in 2004, he has held roles in Product Engineering, Test Engineering, Digital Design, Design Verification, and Test Management. He is currently Characterization & Validation Manager of TI's Precision Analog business unit, based in Tucson, Arizona. He was elected a Member of Group Technical Staff in 2010, and serves as TI's Campus Manager for the University of Florida. Scott spends his spare time traveling, hiking, backpacking, and rock climbing.**