ADI University Programs

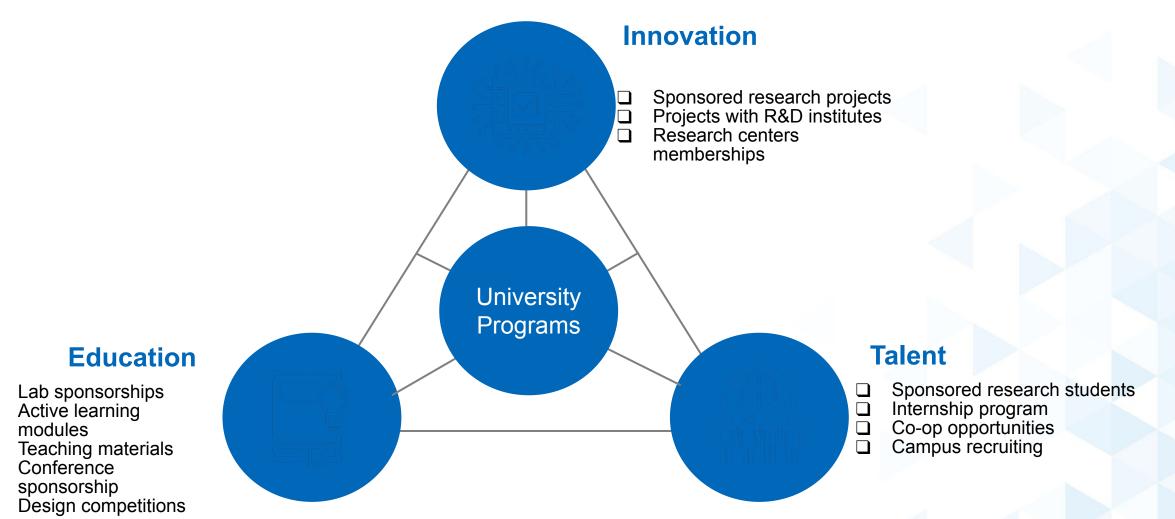
Zoran Zvonar ADI Fellow - IEEE Fellow Director, University Programs



AHEAD OF WHAT'S POSSIBLE™

University Programs Focus





Education





ISSCC.

Develop leading active learning modules (development kits) strategy for worldwide deployment



Organize design competitions to foster creativity using ADI technology

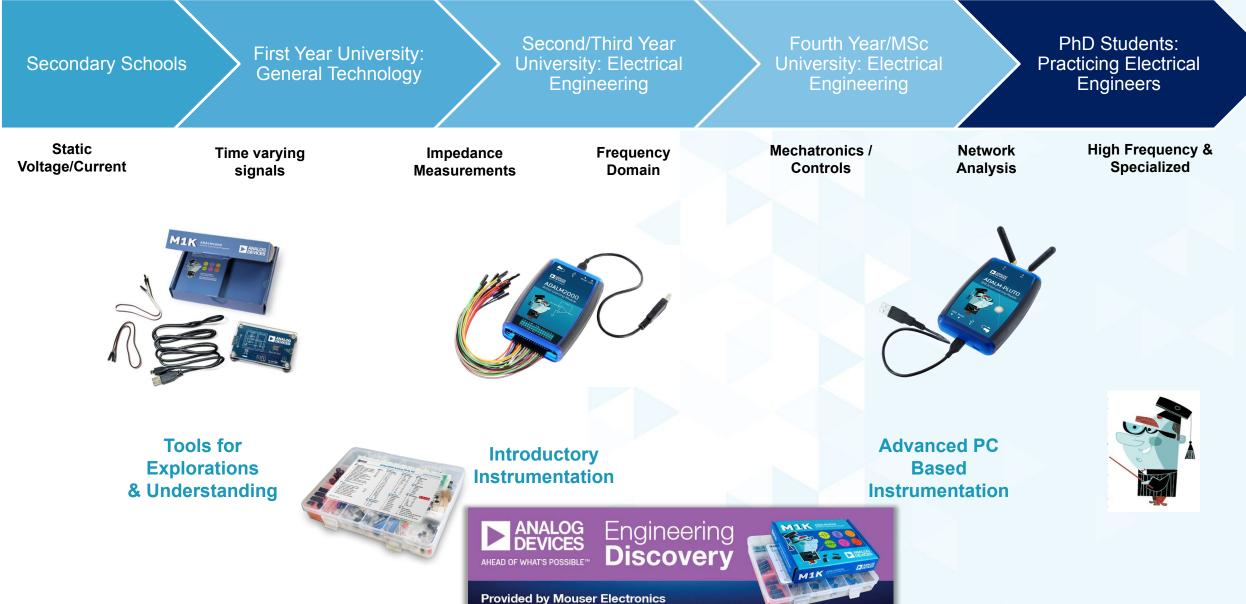
Sponsor laboratories at strategic universities

Sponsor key technical events with strong ADI participation

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Tools evolve as student understanding increases





LTspice Simulator Analog Device × +		
← → C ☆ 🌢 https://www.analog.com/en/design-center/de	gn-tools-and-calculators/ltspice-simulator.html	☆ 🛱 û 🖬 🖉 🗯 🗿 🗄
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AHEAD OF WHAT'S POSSIBLE	Search	
COMPANY	PRODUCTS APPLICATIONS DESIGN CENTER EDUCATION SUPPORT	
n Design Center > Circuit Design Tools &	alculators > LTspice	
Search Simulation Models Reference Designs Evaluation Hardware & Software	LTspice [®] is a high performance SPICE simulation software, schematic capture and waveform viewer with enhancements and models for easing the simulation of analog circuits. Included in the download of LTspice are macromodels for a majority of Analog Devices switching regulators, amplifiers, as well as a library of devices for general circuit simulation.	
Packaging, Quality, Symbols & Footprints	Dur enhancements to SPICE have made simulating switching regulators extremely fast compared to normal	
Circuit Design Tools & Calculators • Amplifier & Linear • Clock & Timing • Data Converter • LTspice • Power	SPICE simulators, allowing the user to view waveforms for most switching regulators in just a few minutes. This video provides an overview of the advantages of using LTspice in an analog circuit design and how easy it is to get started.	
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Pandemic Could Forever Change Higher Education



Spring 2020 - China

Emergency remote teaching





Summer 2020 - US

Emergency remote teaching



RPI Pandemic-Proof Pedagogy

Fall 2020

LAB@Home University of Limerick



US engineering schools



Early STEM education





FIRST Robotics Competition 2016 Season

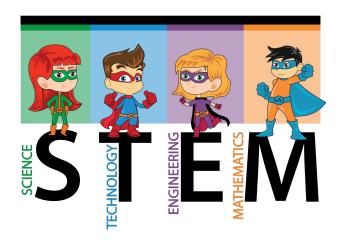
FIRST STRONGHOLDSM – Competition season underway Worldwide Championship to be held on April 27th to 30th in St. Louis

In the 2016 competition game, FIRST STRONGHOLD, two Alliances of three robots each are on a Quest to breach their opponents' fortifications, weaken their tower with boulders, and capture the opposing tower. Robots score points by breaching opponents' defenses and scoring boulders through goals in the opposing tower. During the final 20 seconds of the Quest, robots may surround and scale the opposing tower to capture it.



Teams are currently competing worldwide and the final championship will be held on April 27th to 30th in St. Louis. Competition results are available at: http://trc-wents.firstinspires.org/. Livestreams and archives of the competitions are available on The Blue Alliance: www.thebluealliance.com/events

Video tutorials for using ADI supplied parts for FIRST are provided below. A link to FIRST focused blogs by Kristen Villemez is also provided below.











Comments to workshop questions



- VLSI jobs are increasingly global
- Concentration of activity close to vibrant eco-system due to complexity
- Multiple venues to engage students: internships, co-ops, sponsored research
 - Different level of skills across design process
 - Strong focus on DEI
- Student skills: fundamentals important, greater expectation for graduate students
- Path to tapeout: depends on the technology
 - Internal shuttles
 - External programs
- Heterogenous integration and packaging even more challenging than tapeouts
- Challenges (confirmed at the first day of workshop)
 - Student interest: talent and workforce
 - Huge difference in curriculum across universities
 - Critical mass of expertise (faculty, support)
 - How to scale approach at national level
 - Cost structure
 - ALL POINTING TO NEW INFRASTRUCTURE MODEL

How can we work together ?





New models of funding and structuring leading research and education

Opportunities for "long stay" exchanges

Establishing common areas with complementary expertise in research domains

Access to academic researchers and educators to fast pace technological advances (process nodes, heterogenous integration, packaging, modules etc)

Path to continuous learning

Education approach: fundamentals or popular topics

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