

Reinvigorating VLSI Design NSF Integrated Circuits Research, Education, and Workforce Development Workshop

Gayatri Mehta

Professor, Electrical Engineering
University of North Texas





Recruitment and Retention Efforts at Faculty-Level

- Make IC Design fun and accessible
 - Game-driven approach to teach IC design at early stages of education
 - Interactive design frameworks to teach fundamentals of IC design in introductory courses
 - Establish a highly diverse research laboratory by performing research that encourages participation from students from different disciplines
- Offer research experiences to
 - Undergraduate students during early years of their degrees
 - High-school students through programs such as Texas Academy of Mathematics and Science



A green light to greatness.



Outreach Efforts

- Reached out to more than 800 undergraduate students and more than 500 K-12 students through engaging demonstrations and hands-on activities
- Conducted outreach events for elementary, middle and high school students including Title-I schools by participating in programs such as STEM@thePark, Girl Powered, Digi Girlz, Mindbender Academy, Girl Power Huddle, Navy JROTC, and I-STEM
- Organize laboratory open-house events for middle and high school students

A green light to greatness.



Recruitment and Retention Efforts at Department and University-Level

- Project-oriented curriculum throughout the degree
- Recruitment talks
- Dual degree program
- Grad-track program
- Interdisciplinary degree programs
- Interdisciplinary research opportunities by organizing Research Showcase



Thank you!!