



Ms. Xiaolin Lu

*TI Fellow and R&D Manager
Texas Instruments*

Asian American
Engineer
of the Year
Award

Xiaolin Lu is Texas Instrument Fellow and R&D Manager of TI Kilby Innovation Technology Center Dallas site. She is currently leading the industrial internet research initiative across TI. Before that she is leading a group of talented researchers working on various semiconductor HW/SW technologies in application space of industrial internet, smart grid and ultra-low-power communication systems using TI embedded processors and analog devices.

Xiaolin's technical leadership function covers communication technologies, networking, real-time embedded SW, signal processing, HW/SW partitioning, ultra-low-power with business insights and user experience orientation. Over the last five years, she led a team of researchers worked on the projects which led to in-company "start-ups", customer engagements and revenue/profit impact. She worked on various embedded system and software programs, including SmartNet IoT SW framework, industry 1st OFDM based multi-standard Narrow Band Power Line Communication Systems for AMR/AMI in smart grid, Wireless and Wired Hybrid Sensor Networks for building automation, 802.15.4g Software Defined Radio for Smart Utility Network and out-door long-distance sensors, OS embedded task level power-aware scheduler/analyzer for DVFS and Dynamic Sleep. Before that she also worked on multiple prototypes and products of LTE/Wimax universal OFDM engine, 1st programmable universal broadband MAC processor, Wi-Fi/Bluetooth co-existence and industry 1st mobile DTV tuner integrated SoC, SmartDMA with embedded Crypto and CRC Engine, etc.

Xiaolin routinely engages with customers and technology companies across the globe to understand and influence the semiconductor industry's future. Xiaolin is well-known as an embedded system and software expert inside and outside TI and has given keynote and plenary talks or presentations at numerous WW prestigious technical conferences: IEEE ISPLC, IoT World Forum, IEEE IoT Global Summit, IEEE Global SiP, MetroCon, TexasWISE, etc. In addition, she is the author/co-author of more than 50 U.S. patents.

In addition to driving vision, strategy and product development in various application spaces, Xiaolin is very engaged in nurturing, mentoring and supporting engineers especially women engineers both inside and outside TI. She sets this as a personal priority and spends significant time through various diversity initiatives, invited talks, 1x1 mentoring programs and other forums designed to reach and motivate. 2016 is the 3rd year of her co-chairing the Industrial Advisory Counsel, as the first TI employee, at the Johnson Engineering School of University of Texas at Dallas (UTD). She also actively involved in multiple local community activities such as United Way, High-Tech High-Heel, Dallas Women Foundation, etc.

Xiaolin received multiple external awards/recognitions which include Special Recognition Award from Society of Women Engineers (SWE) and National Women of Color award in the Technical Innovation – Industry Category.

Xiaolin earned Master of Science degree in Computer Science from Indiana University in Bloomington, IN. She also has a Bachelor degree in Electrical Engineering from National Zhejiang University in China. She participated two years evening MBA training in Drake University, Des Moines, IA. Currently, she lives in Plano, TX wither her family. In her free time, Xiaolin enjoys cooking, piano classes with children, classical music and leisure travel.

