

Mohammed Ismail PhD Fellow IEEE

- **Founding Director, The Analog VLSI Lab Ohio State (www.ece.osu.edu/VLSI)**
- **Founding Director, The RaMSiS Research Group, KTH, Sweden**
- **Mubadala Technology professor and Founding Chair, ECE KUSTAR, UAE, Founding Director KSRC.**
- **Co -Director the ACE4S ATIC-SRC Center of Excellence (<http://www.src.org/program/grc/ace4s/>)**
- **ECE professor and Chair, Wayne State University, Detroit, MI, USA**



Mohammed Ismail a prolific author and entrepreneur in the field of chip design / test and nanotechnology, spent over 25 years in academia and industry in the US and Europe He obtained his BS and MS from Cairo University, Egypt and His PhD from the University of Manitoba, Canada in 1983, all in electrical engineering.

He is the Founder of the Ohio State University's (OSU) Analog VLSI Lab, one of the foremost research entities in the field of nano-electronics , analog, mixed signal and RF integrated circuits and served as its Director. He also served on the Faculty of OSU's ElectroScience Lab. He held a Research Chair on nano-electronics circuits at the Swedish Royal Institute of Technology (KTH) where he founded the RaMSiS (Radio and Mixed Signal Integrated Systems) Research Group there. He had visiting appointments in Finland (Aalto university), Norway (NTH and University of Oslo), the Netherlands (Twente University) and Japan (Tokyo Institute of Technology).

He Joined KUSTAR, the UAE in 2011, where he holds the ATIC (now Mubadala Technology) Professor Chair and is Founding Chair of the ECE Department. He is the Founding Director of the Khalifa Semiconductor Research Center (KSRC) and Co-Director of the ATIC-SRC Center of Excellence on Energy Efficient Electronic systems (ACE4S) targeting self-powered nanoscale chip sets for wireless sensing and monitoring, bio chips and power management solutions. His current research focuses on CMOS RF and mm-wave ICs , energy harvesting and power management, wearable Biochips and Systems on Chip (SoCs) for the Internet of Things (IoTs) and smart self-driving vehicles. He joined Wayne State University in Detroit, MI as professor and Chair of ECE while maintaining his position at KUSTAR as an Adjunct.

He led a research team that developed the first CMOS combo 802.11a/b/g Wi-Fi Radio chip which was commercialized. More recently He developed with his colleagues the world first self-powered wearable device that predicts the onset of a heart attack long before it happens and is currently in the process of commercializing it in partnership with the Cleveland Clinic, a world leading hospital in cardiology.

Dr. Ismail served as a Corporate Consultant to over 30 companies worldwide and is a Co-Founder of Micrys Inc., Columbus, Ohio, Spirea AB, Stockholm, Firstpass Technologies Inc., Dublin, Ohio and ANACAD-Egypt (now part of Mentor Graphics and Siemens). He advised the work of over 54 Ph.D. students and of over 100 M.S. students. He authored or co-authored over 20 books and over 170 journal publications, 300 conference papers and has 15 US patents granted and several pending.

He is the Founding Editor of the Springer Journal of Analog Integrated Circuits and Signal Processing and serves as the Journal's Editor-in-Chief. He served the IEEE in many editorial and administrative capacities. He is the Founder of the IEEE International Conference on Electronics, Circuits and Systems (ICECS), the flagship Region 8 Conference of the IEEE Circuits and Systems Society and a Co-Founder of the IEEE International Symposium on Quality Electronic Design (ISQED). He received the US Presidential Young Investigator Award from the White House, the Ohio State Lumley Research Award four times, in 1992, 1997, 2002 and 2007 and the US Semiconductor Research Corporation's Inventor Recognition Award twice as well as several best paper awards. More recently he received the 2018 UNESCO Medal for Contributions to NanoScience and the SRC Board of Directors Special Recognition for Leadership in Semiconductor Research in the UAE. He is a Fellow of IEEE.

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