

Seminar #5 Tuesday, January 5th, 2016, 10:00–11:00,

Place: Çukur Saray, FBE - room F17

Presentation Title: A doctorate degree holder's adventures in private sector making products in xDSL, Digital Audio and Video Broadcasting, Wireless Mobile and Connectivity, Enterprise and Cloud Storage, Led Lighting, and Solar Panels.

Speaker: Dr. Ahmet Kirac

Summary: In this talk I convey my experiences across different disciplines for making systems, integrated circuits, and end user products. The journey starts with a doctorate degree in Digital Signal Processing discipline of Electrical Engineering at Caltech in California and dives right into the making of digital multitone modulation based xDSL ICs and their AD/DA ICs at Lucent Technologies, Bell Labs and Microelectronics. The making of digital broadcasting systems, ICs, and receivers for both traditional AM/FM radios, as well as new satellite radios are described next. Making of wireless mobile systems and ICs starts with the first generation of 4G OFDMA based LTE at Qualcomm. Making of WLAN 5GHz and 2.4GHz cutting edge products at Airties in Istanbul for retail and service providers are described next. The USA journey ends with making of Enterprise and Cloud Storage products at EMC in Boston area. The journey in Turkey starts with making of LED lighting products for roadways and ends with manufacturing of solar modules. The discussion will follow on how these broad industrial experiences across multiple domains may be put in use at Yildiz Technical University for an effective cooperation between academic studies and the private sector.

Biography: The speaker Dr. Ahmet Kirac has BS degree in Electrical and Electronics Engineering from Bilkent University, Ankara, Turkey and MS and PhD degrees in Electrical Engineering from California Institute of Technology (Caltech), Pasadena, CA, USA. He has 5 journal, and 10 international conference publications in the areas of sub band coding, quantization, and principal component analysis. He holds 5 USPTO issued international patents on enterprise and cloud storage. He has started his career as a Member of Technical Staff at Lucent Technologies Bell Labs Microelectronics (now part of AlcatelLucent), and continued with a Lucent spinoff startup iBiquity Digital Corporation (now part of DTS). He managed the design of first 4G LTE ICs for wireless mobile at Qualcomm. He was a senior manager at EMC (now part of Dell) where he managed the product evolution of the core Enterprise and Cloud Storage business unit. He then transitioned to Turkey taking up positions as Technical Coordinator for Basari Investments, Director of Hardware Platform Development at Airties, and finally as Chief Technology Officer at GTC Dis Ticaret Ltd Sti.