



University of Pittsburgh

Swanson School of Engineering

Department of Electrical and Computer Engineering

QUALCOMM DAY Mini-Workshop

January 30th, 2014

9:00 am – 10:00 am	Meet at Wyndham Hotel Lobby & Breakfast	Wyndham Hotel
10:00 am – 10:30 am	Walk to School and Lab Tour	BENDM 963
10:30 am – 10:50 am	Meet with <u>Dr. Stanchina</u>, Dept. Chairman	BENDM 1140
11:00 am – 2:50 pm	Mini-Workshop (Part I)	BENDM 102
11:00 am – 11:15 am	<u>Dr. Yiran Chen</u> : Welcome and EI Lab Introduction	
11:15 am – 12:15 pm	<u>Dr. Kendrick Yuen</u> : Qualcomm & Its University Research	
12:15 am – 12:30 pm	Break	Work Lunch will be served.
12:30 pm – 1:30 pm	<u>Dr. Wenging Wu</u> : GSHE Applications Investigated at Qualcomm Research	
1:30 pm – 2:50pm	Research talks – Part I <u>Enes Eken</u> : MTJ Modeling and Using Magnetic Field for Read and Write Operations in STT-RAM <u>Yaojun Zhang</u> : ADAMS, Asymmetric Differential STT-RAM Cell Structure Design for Reliable and High Performance Applications <u>Xiuyuan Bi</u> : Unleashing the Potential of MLC STT-RAM Caches <u>Xiaoxiao Liu</u> : STD-TLB: A STT-RAM-based Dynamically-configurable Translation Lookaside Buffer for GPU Architectures <u>Wujie Wen</u> : ECC Design for Reliable SLC/MLC STT-RAM Memories	
3:00 pm – 3:15 pm	Meet with <u>Andrew D. Falk</u> (Executive Director of Corporate and Foundation Relations) & <u>Maureen Barcic</u> (Director, Cooperative Education)	BENDM 136
3:30 pm – 4:45 pm	Mini-Workshop (Part II) <u>Mengjie Mao</u> : Prefetching Techniques for STT-RAM based Last-level Cache in CMP Systems <u>Kent Nixon</u> : The Invisible Shield: User Classification and Authentication for Mobile Device Based on Gesture Recognition <u>Xiang Chen</u> : Smartphone Power Consumption Analysis and OLED Display Power Optimization <u>Beiyue Liu</u> : Spike Neural Network with Emerging Technology <u>Dr. Hai (Helen) Li</u> : Closing Remark	BENDM 442
5:00 pm – 6:00 pm	Campus Tour	
7:00 pm –	Dinner at Monterey Bay Fish Grotto - Mt. Washington	