Qing Li

Contact	E&CE Department			
INFORMATION	University of Waterloo	Work: +1 (519) 888-4567 x 3144	9	
	Waterloo, Ontario, Canada	<i>E-mail:</i> q23li@uwaterloo.ca		
Research and Professional Interests	 Analog and digital circuit design with amorphous materials and crystalline silicon Circuit-level impact of mechanical stress for flexible electronics Modeling of transistors with amorphous materials 			
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Education	University of Waterloo, Waterloo, Ontario, Canada			
	Ph.D. Candidate, Electrical Engineering, September 2015 (expected graduation: December 2019)			
	 Dissertation Topic: "Backplane Circuit Design for Flexible Displays" Advisors: Dr. William S. Wong and Dr. Manoj Sachdev 			
	M.ASc., Electrical Engineering,	August 2012		
	B.ASc., Electrical Engineering (Honors with Distinction), July 2010			
Academic Experience	University of Waterloo, Waterlo	oo, Ontario, Canada		
	Graduate Student	· · ·	September 2015 - present	
	Includes current Ph.D. research, gr	aduate level coursework and resea		
	• Transistor modeling and pixe with amorphous technology of	el circuit design to tackle bias-ind on flexible substrate	uced performance degradation	
	• Analog and digital circuit design with amorphous silicon technology with focus on low power and high performance, including decoders, DACs, differential amplifiers and etc.			
	• Integration of a morphous silicon TFTs with μLEDs to form flexible displays.			
	• Mask layout design for various circuits and systems for flexible wafer fabrication.			
	• Post-fabrication characterization for various circuits under mechanical stress.			
	Teaching Assistant for Circuit Cou Duties at various times have include lab exercises.		January 2011 - April, 2012 ing office hours and supervising	
Journal Publications	Asad M., Li , Q. , Lee, CH., Sach Diodes with a-Si:H TFTs for Flexi			
	Li, Q., Lee, CH., Asad, M., Wong, W. S., and Sachdev, M. "A 6-TFT Charge-Transfer Self-Compensating Pixel Circuit for Flexible Displays", IEEE Journal of the Electron Devices Society (March 2019), Volume 7, PP 1-9.			
	Sanjeevi, S., Li , Q. , Lee, CH., V Volatile Memory TFTs Under Mult (July 2017), Volume 5, Issue 4, Pag	tiple Read Cycles", IEEE Journal	0	
Conference Proceedings and Presentations	Li, Q., Asad, M., Lee, CH., Sachdev, M., and Wong, W. S. "Flexible Inverted InGaN Micro- LEDs Addressed by a-Si:H TFTs Pixel Circuits" 61 th Electronic Materials Conference, Ann Arbor, Michigan, USA, to be held in June 2019. (Oral presentation)			

	Li, Q., Lee, CH., Asad, M., Sachdev, M., and Wong, W. S. "Operation and Control of Flex Display Pixel Circuits Under Mechanical Bending", Proceedings of IEEE International Flex Electronics Technology Conference (August 2018), Page 229-232.		
	Li, Q., Asad, M., Lee, CH., Sachdev, M., and Wong, W. S. "Integration of InGaN Micro-LEDs with Amorphous-Silicon Thin-Film Transistors for Flexible Displays" 60^{th} Electronic Materials Conference, Santa Barbara, California, USA, June 2018. (Oral presentation)		
Professional Experience	Senior Engineer, Full-Custom Layout Team, AMD Inc.Oct, 2012 - July, 2015Markham, Ontario, CanadaOct, 2012 - July, 2015		
	 Analog/Mixed signal layout for precision circuit considerations, high-speed interfaces, active/passive device matching/placement, signal matching, parasitic reduction, shielding, electromigration, and etc. Layout floor-planning, hierarchical layout assembly, structured/standard cell planning and generation. Interpreting DRC and LVS reports to come up with fast and effective solutions. Implementing power grid, I/O, routing, shielding, bias consideration, matching techniques and layout designs for AMD products. 		
Professional Skills	 Mixed-signal circuit design and layout with amorphous silicon TFT technology. Device and circuit characterization with various laboratory equipment. Anglog/digital circuit design/layout with 180nm, 65nm, 28nm, 14nm, and 7nm technologies. Expertise in Cadence Virtuoso Suite and Mentor Graphics Calibre. Experienced in Synopsys TCAD Sentaurus and Medici simulators. Experienced in C programming and Shell scripting, LATEX, and MS Office Suite. Operating Systems: Windows and Linux. 		
Awards	 Graduated from the Bachelor's degree with Distinction. University of Waterloo International Student Awards 2005 - 2010 Honorable Mention in the Canadian Mathematical Olympiad (CMO) 2003 Ranked top 1% in the Chinese National College Entrance Examination (NCEE) 2003 		

CITIZENSHIP • Canadian