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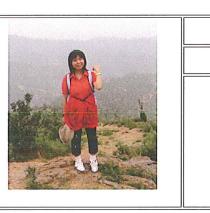
Fax: (610)758-6279 email: mkh1@lehigh.edu

#### Education

Ph.D. Electrical Engineering, Carnegie Mellon University, USA 1987 M.S. Electrical Engineering, State University of New York at Buffalo, USA 1984 B.S. Physics, Aristotle University of Thessalonia, Greece 1982

#### Biography <u>My CV</u>

*Professor Miltiadis Hatalis* received the B.S. degree in Physics from Aristotle University of Thessaloniki, Thessaloniki, Greece, in 1982, the M.S. degree in Electrical and Cmputer Egineering from the State University of New York at Buffalo in 1984, and the Ph.D. degree in Electrical and Computer Engineering from Carnegie Mellon University, Pittsburgh, PA, in 1987. He joined the Department of Electrical and Computer Engineering of Lehigh University, Bethlehem, PA, in 1987 as an Assistant Professor and was promoted to Associate Professor in 1991 and to Professor in 1995. In 1992, he was a Visiting Scientist at XEROX Palo Alto Research Center. He is the author or coauthor of over 150 technical publications in the field of Polysilicon Thin-Film Transistor Technology. His research interests are in electronic thin film materials, devices and circuits for flat panel displays, and integrated Microsystems on variety of rigid and flexible platforms including silicon, glass, flexible metal foil, and plastic. Dr. Hatalis served as Chairman of the organization committee for five technical workshops and conferences in the field of flat panel displays and systems.



Xiaoxiao Ma

Ph.D. Candidate

Contact Information Sherman Fairchild Lab 303 Phone: (610)758-3948 Fax: (610)758-4561 email: xim207@lehigh.edu

Education Ph.D. Candidate, Electrical Engineering, Lehigh University, USA M.S. Electrical Engineering, Lehigh University, USA 2009 B.S. Material Science & Engineering, Shanghai Jiao Tong University, China 2007

Biography



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	I nomas Charisoulis
	M.S. Student
	Contact Information Sherman Fairchild Lab 307 Phone: (610)758-4020 Fax: (610)758-4561 email: thc210@lehigh.edu
Biography	
Devry Institute - Electrical Engineer Desales University and Lehigh Univ Perkin Elmer/ ASML - Field Service Lucent Technologies - Photolithogra	versity - Additional Studies e and Support Engineer

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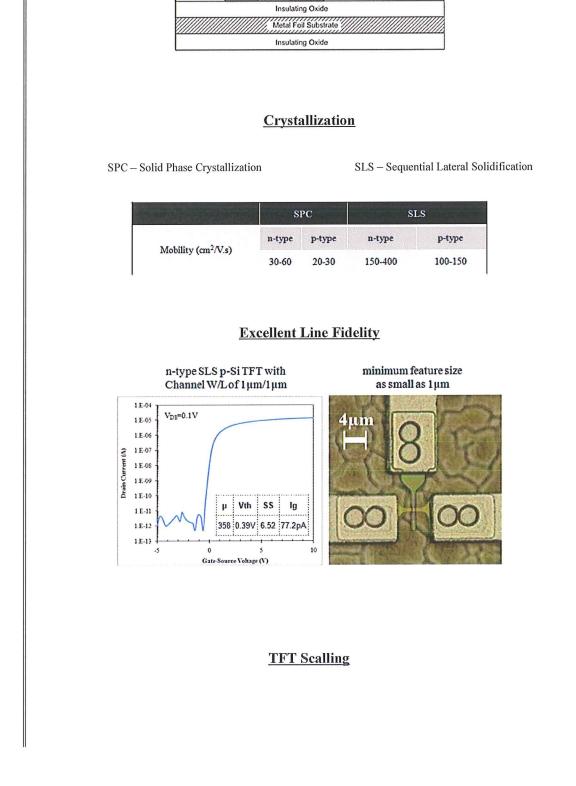
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Publications develor   Facilities polysi   Lehigh Homepage tempe   ECE Dept Page men   • •	Developing Tomorrow's Technology Today ith the goal to realize high-performance electronic systems on flexible platform this group pursuits design and opment of devices, circuits and very large scale integrated systems on stainless steel foil substrate mainly employing licon Thin Film Transistor (TFT) technology. In contrast with plastic substrates, metal foils can withstand high- rature steps such as thermal oxide growth, thermal dopant activation, silicidation etc. Furthermore, the superior usional stability of metal foil substrates permits the implementation of rather small features (<1µm) over a large area. makes the development of highly integrated, high performance CMOS electronics on flexible, large area platform ble. Our efforts cover the following aspects: Preparation of flexible metal foil substrates Design, simulation, and fabrication of application specific solid state devices (including TFT, pin Diode, OLED, etc.) Design, simulation, and fabrication of standalone circuits, application specific integrated circuits and systems with novel technologies (including poly-Si TFT, Oxide-TFT, and etc.) Development of characterization and testing setup for highly customized large area integrated systems. Encapsulation of air or humidity sensitive electronic systems <b>Following are some of our projects</b> AMOLED display on flexible metal foil substrate Integrated analog, digital and mixed signal circuits on stainless steel foil Large Area Flexible Digital Systems on Flexible Platform Low Temperature Metal-Oxide TFTs for display and sensor applications Evaluation of TFT electronics on flexible platform under mechanical strain Assessment of various metal foils for flexible electronic applications Reverse stamped printed electronics



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