

# Miltiadis K. Hatalis, Ph.D.

## Professional Summary

Miltiadis (Miltos) Hatalis is a Professor in the Department of Electrical and Computer Engineering at Lehigh University. He received his B.S. degree in Physics from Aristotle University, Greece in 1982, the M.S. degree in Electrical Engineering from SUNY Buffalo in 1984, and the Ph.D. degree in Electrical Engineering from Carnegie Mellon University in 1987. He is teaching courses on semiconductor devices, electronic circuits, VLSI, computer engineering and photovoltaic energy systems. His research interests are on electronic materials, devices and circuits for VLSI, flat panel displays, sensors, and integrated microsystems on a variety of rigid or flexible substrates including silicon, glass, metal foils, plastic, and paper. At Lehigh University, Prof Hatalis established a clean room facility for 150 mm substrates dedicated to the fabrication of ICs, sensors and flat panel displays and served as its Director for 25 years. Prof. Hatalis has received \$13.6 million of research funding and has been the Principal or Co-Principal Investigator of 41 research programs. Some of his group notable system demonstrations include flexible integrated circuits, flexible AMOLED displays, and large area sensor arrays for biometric and gas sensing applications. Prof. Hatalis has served as a consultant to several companies in the semiconductor and flat panel display fields and as an expert on 18 completed patent litigation cases including a testifying witness in an ITC case. As an expert prepared 34 expert reports (19 of them in support of IPRs) and was deposed for 22 of these reports. He is the author or co-author of over 180 technical publications including three issued patents related to driving of AMOLED displays, and two book chapters one on AMOLED pixel electronic circuits and one on polysilicon TFT technology. Prof. Hatalis has served as the PhD advisor of 20 completed PhD dissertations.

## Expertise

- Electronic Materials & Micro/Nano Electronic Fabrication Processes
- Flat Panel Displays (AMOLEDs, TFT-LCDs)
- Flexible Displays & Flexible Electronics
- Micro/Nano Electronic Devices & Integrated Circuits
- Sensor and Transducer Arrays
- Thin Film Transistor Technologies
- VLSI

## Education

Doctor of Philosophy (Ph.D.)	Electrical and Computer Engineering,	1987
	Carnegie Mellon University, Pittsburgh, PA USA	
Master of Science (M.S.)	Electrical and Computer Engineering,	1984
	State University of New York at Buffalo, NY, USA	
Bachelor of Science (B.S.)	Physics	1982
	Aristotle University of Thessaloniki, Greece	

## Professional Experience

### Academia

1995-today	Professor	Lehigh University, Bethlehem, PA Department Electrical & Computer Engineering
2003-2008	Professor	Aristotle University, Greece Department of Computer Science
1991-1995	Associate Professor	Lehigh University, Bethlehem, PA Department Electrical & Computer Engineering
1987-1991	Assistant Professor	Lehigh University, Bethlehem, PA Department Electrical & Computer Engineering

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1993-today	Director	Display Research Laboratory Lehigh University
2010-2013	Interim Director	Sherman Fairchild Center for Solid State Studies Lehigh University
1988-1993	Associate Director	Microelectronics Research Laboratory Lehigh University

### Industry

1987-2015 Independent Consultant

- Air Products
- Alcoa
- Corning
- Diamonex
- Dow Corning
- eMagin
- IBM
- Intevac
- Kodak
- Litton Systems Canada
- Motorola Solutions
- Next Biometrics
- Sharp Labs of America
- Spire
- Sterling Diagnostics
- Versatilis

1992 Visiting Scientist XEROX Palo Alto Research Laboratory

## Courses Taught

- Principles of Electrical Engineering
- Physics of Semiconductor Devices
- Microelectronics Technology
- Photovoltaic Energy Systems
- Electronic Circuits
- Introduction to VLSI Circuits
- VLSI Design
- Introduction to Computer Engineering

**Expert Engagements for Patent Litigation Cases\***

(\*completed cases)

Total Court Appearances: 1 (testified at an International Trade Commission (ITC) trial)  
Total Expert Reports: 34  
IPR related Reports: 19  
Total Reports Deposited: 22

18)

Law Firm: Latham & Watkins, LLP  
Case Name: Solas OLED Ltd. v. LG Display,  
Services Provided: Engaged as Expert for LG. Prepared four expert reports and deposited for two of them. These reports were in support of requests to USPTO for Inter Parties Review of three different patents. One IPR was instituted.  
Disposition: Case settled  
Date: 2019-2020

17)

Law Firm: K&L Gates, LLP  
Case Name: Sharp. v. Visio et. al, CASE NO. 8:20-cv-00490  
Services Provided: Engaged as Expert for Sharp. Prepared an expert report for claim construction.  
Disposition: Case settled  
Date: 2020

16)

Law Firm: Bragalone Conroy, PC  
Case Name: Vista Peak Ventures v. JDI, Case Nos. 2:19-cv-00323, -324, -325 (E.D. Tex.)  
Services Provided: Engaged as Expert for Vista Peak. Prepared an expert report for claim construction.  
Disposition: Case settled  
Date: 2020

15)

Law Firm: Bragalone Conroy, PC  
Case Name: Vista Peak Ventures v. AU Optronics Corp., C.A. No. 2:18-cv-00276 (E.D. Tex.)  
Services Provided: Engaged as Expert for Vista Peak. Prepared an expert report for claim construction.  
Disposition: Case settled  
Date: 2019

14)

Law Firm: O'Melveny & Meyers, LLP  
Case Name: MediaTek Inc. v. Advanced Micro Devices, Inc., C.A. No. 19-368-CFC (D. Del.)  
Services Provided: Engaged as Expert for AMD. Search and analysis of relevant prior-art.  
Disposition: Case settled  
Date: 2019

13)

Law Firm: O'Melveny & Meyers, LLP  
Case Name: Tessera v. Samsung Electronics, et al. ITC No. 337-3262  
Invensas v. Samsung Electronics, et al. Civil Action No. 2:17-cv-670

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Services Provided: Engaged as Expert for Samsung. Prepared six expert reports and deposed for one report, in support of requests to USPTO for Inter Parties Review of five patents.  
Disposition: Case settled prior to USPTO making a decision  
Date: 2017 – 2018

12)  
Law Firm: Covington & Burling, LLP  
Case Name: MiiCs & Partners America, et al. v. Toshiba, et al. Samsung Electronics Co., (Civil Action No. 1:14-cv-00803-RGA),  
MiiCs & Partners America, et al. v. Funai, et al. Samsung Electronics Co., (Civil Action No. 1:14-cv-00804-RGA)

Services Provided: Engaged as Expert for Samsung on three patents. Prepared three Invalidity, three Rebuttal (Non-infringement) and three Reply Expert Reports. Also developed non-infringing alternatives that resulted in low damages. I was deposed for all reports.  
Disposition: Judge ruled in favor of defendant's MSJ on non-infringement for two of the patents. Plaintiffs agreed to dismiss the case for the third patent.  
Date: 2016 - 2017

11)  
Law Firm: Hogan Lovells, LLP  
Case Name: Round Rock Research LLC v. Ricoh Corporation, (Civil Action No. 1:15-CV-00157-SLR)

Services Provided: Engaged as Expert for Ricoh. Prepared two expert reports in support of requests to USPTO for Inter Parties Review of two patents.  
Disposition: Case settled prior to USPTO making a decision.  
Date: 2016

10)  
Law Firm: O'Melveny & Meyers, LLP  
Case Name: Samsung Electronics Co. LTD., et. al. v. NVIDIA Corporation, (Civil Action No. 3:14-CV-00757)

Services Provided: Engaged as Expert for Samsung  
Disposition: Undisclosed  
Date: 2014 – 2015

9)  
Law Firm: Covington & Burling, LLP  
Case Name: The Penn State Research Foundation v. Samsung, (Civil Action No. 4:14-CV-00124-MWB (M.D.Pa))

Services Provided: Engaged as Expert for Samsung on one patent. Performed invalidity analysis and provided non-infringement contentions.  
Disposition: Complainant withdrew the complaint.  
Date: 2014

8)  
Law Firm: Jeffer Mangels Butler & Mitchell, LLP  
Case Name: SEL v. Innolux  
Services Provided: Engaged as Expert for Innolux on five patents. Prepared seven expert reports in support of requests to USPTO for Inter Parties Review of five different patents; all IPRs were instituted. I was deposed separately for each of these seven reports.  
Disposition: Case settled prior to USPTO making a final decision.  
Date: 2012 – 2013

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7)

Law Firm: Cozen O' Connor, LLP  
Case Name: EIDOS v. AUO, et. al., Civil Action No. 6:11-CV-201-LED-JDL  
Services Provided: Engaged as Expert for Innolux  
Disposition: Undisclosed  
Date: 2013

6)

Law Firm: O'Melveny & Meyers, LLP  
Case Name: AUO v. Samsung, (Civil Action No. 3:09-CV-00001-BBC)  
Services Provided: Engaged as Expert for Samsung  
Disposition: Undisclosed  
Date: 2011

5)

Law Firm: White & Case, LLP  
Case Name: Thomson v. CMI, (Investigation No. 337-TA-741 and No. 337-TA-749)  
Services Provided: Engaged as Expert for CMI. Prepared one invalidity and one non-infringement expert reports. I was deposed for these reports. I testified in the ITC trial.  
Disposition: ITC ruling was favorable to CMI and it was affirmed by US Court of Appeals.  
Date: 2011

4)

Law Firm: O'Melveny & Meyers, LLP  
Case Name: SEL v. Samsung, (Civil Action No. 3:09-CV-00001-BBC)  
Services Provided: Engaged as Expert for Samsung  
Disposition: Undisclosed  
Date: 2009

3)

Law Firm: Irell & Manella, LLP  
Case Name: LG v. CMO, (Civil Actions No.06-726 (JJF) & 07-357 (JJF))  
Services Provided: Engaged as Expert for CMO  
Disposition: Undisclosed  
Date: 2008

2)

Law Firm: Howrey, LLP  
Case Name: SEL v. CMO, (Case No. C 04-04675 MH)  
Services Provided: Engaged as Expert for CMO. I prepared a non-infringement expert report. I was deposed for that report  
Disposition: Judge ruled in favor of defendant's MSJ on non-infringement.  
Date: 2007

1)

Law Firm: Morrison & Foerster  
Case Name: SEL v. Sanyo  
Services Provided: Engaged as Expert for Sanyo  
Disposition: Undisclosed  
Date: 2001

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