Curriculum Vitae of Dr. James L. Olivier

PROFESSIONAL SUMMARY

The foundation for my career began over thirty years ago with a Doctorate in Electrical Engineering.

I am currently an Adjunct Professor Telecommunications and Network Engineering Program Southern Methodist University's Graduate School of Electrical Engineering, where I teach MPLS enabled applications to graduate students. I am also the owner of Olivier Consulting, where I provide consulting services for advanced network / system design along with IP consulting. In addition, I am also a member of the technical staff of McAlexander Sound, where I specialize in Telecommunications Architecture / Computer Software. Recently I have been appointed Program Lead and Adjunct Executive in Residence at SMU's Hunt Institute for Engineering and Humanity for Transformational Technologies.

I have three degrees from The Ohio State University: a Bachelor of Science degree in Electrical Engineering; a Master of Science degree in in Electrical Engineering and a Doctor of Philosophy degree in Electrical Engineering. I have published papers in the areas of coding theory and multiprocessor computer systems.

Over the last 18 years I have devoted my attention to industry consulting in the areas of intellectual property and networking technologies.

EDUCATION PROFILE

Ph.D. Electrical Engineering, The Ohio State University, Columbus, Ohio, 1988 Dissertation: "*Concurrent Error Detection in Arithmetic Processors using GAN Codes*", Received separate minors in fields of Computer Science, Microelectronics and Semiconductor Fabrication, and Discrete Mathematics.

Recipient of the prestigious Kodak Fellowship, awarded nationally to 12 doctoral students in the fields of science and engineering.

MS. Electrical Engineering, The Ohio State University, Columbus, Ohio, 1985 Thesis: "*A Navigation System for a Vehicle with a Laser Rangefinder*"; Major areas of study were robotics and artificial intelligence.

BS. Electrical Engineering, The Ohio State University, Columbus, Ohio, 1983 Cum Laude.

EXPERIENCE PROFILE

2022 – present **Research Professor at SMU's Hunt Institute for Engineering and Humanity Southern Methodist University**

- Program Lead of Hunt Institute's Transformational Technology Hub responsible for strategy formulation and project implementation.

2019 – 2022 **Program Lead and Adjunct Executive in Residence SMU's Hunt Institute for Engineering and Humanity Southern Methodist University**

- Program Lead of Hunt Institute's Transformational Technology Hub responsible for strategy formulation and project implementation.

2017 - present **Adjunct Professor Telecommunications and Network Engineering Program Southern Methodist University's Lyle School of Electrical Engineering**

- Teaching Advanced Switching and Routing with MPLS at SMU's nationally rated Telecommunications and Network Engineering program. Research interests include SDNs, Video Transport, SD-WANs, Blockchain, IoT, and In-Networking Processing.

2003 - present **Olivier Consulting – Dallas Texas**
IP Consultant M^{c}Alexander Sound

- Technology Research and Intellectual Property Management, including, IP Protection, IP Validity, IP Portfolio Valuation, IP Strategy and IP Technical Consultation. Clients include Arista Networks, HTC Corporation, T-Mobile, Samsung, Vizio, Google Corporation, Level 3 Communications, AT&T, Amazon, Ericsson, and S.T Microelectronics.

Recognized Expert before United States Federal District Courts in the Areas of

- Congestion Control in Packet Switching
  QPSX v Nortel 2:05-CV-268, 2007

- Cellular High Speed Packet Access Networks
  Wi-LAN Inc., v. Alcatel-Lucent et. al CV-6:10, 2013

- Signaling Protocols in Cellular Networks
  Core Wireless Licensing S.A.R.L v. Apple 6:12-CV-100, 2015

Recognized Expert before the International Trade Commission in the Areas of

- Security and Firewalls in Routers and Switches;
  Investigation 337-TA-628, 2007

- Cellphone Hardware and Software for Imaging;
  Investigation 337–TA-726, 2010

- Operating Systems for Mobile Devices;
  Investigation 337–TA-744, 2011

- Mobile Devices Hardware and Software Architectures;
  Investigation 337–TA-850, 2012

- Ethernet Switch Packet Processor Hardware and Software;
  Investigation 337–TA-945, 2015

Lead Technology Research and Intellectual Property investigations in the following areas

- Technology related to mobile camera system's software systems architecture. *HTC Corporation*

- Technology related to gateway protocols between Cellular /PSTN Networks and the Internet. Investigated the design of a Packet Gateway and associated soft switch. *Level 3 Communications*

- Technology related to content delivery server systems based on demographic information received from client systems. *AT&T*

- Technology investigation related to Metro Ethernet, MPLS, 802.17, and 802.3 access products. *Transpacific IP*

- Technology investigation related to the research, specification, design, and architecture of the Telstrat's Next Generation Switch, which provided video, including analog, digital, HDTV, along with IP based voice, and also provided internet service. *Telstrat*

- Technology investigation into the specification, design, and architecture of the Crane Wireless Sensor Network. Investigated scalability, address assignment, access, and security for a large IoT Wireless Sensor Network. *Crane Aerospace*

2002 - 2003 **Navini Networks - Richardson, Texas Senior Manager**

- Performed research and development in Navini's Wireless CDMA broadband System. Responsible for definition and implementation of layer 2 and layer 3 network protocols for Navini's Broadband Wireless Products. Developed servers for network security, network services, service provisioning and subscriber management for a CDMA network. Responsible for the design and development of a sign-on web site which managed and authorized users for different services in a broadband CDMA network. This system consisted of multiple Apache Web Servers providing the web pages to the users and a centralized key storage facility to manage the various keys needed to authorize the different services.

1999 – 2002 **Marconi Communications - Irving, Texas Manager of Systems Engineering**

- Responsible for design and development of new products and product evolution for Marconi's North American Access Division. I developed systems for the access video market, such as Digital Subscriber Line (DSL) networks, Hybrid fiber-coaxial (HFC) networks and DOCSIS systems. These systems were triple play systems which provide voice, video and data. While at Marconi, I was also responsible for the web servers design for the Network Management System for the North American Access product division.

1996– 1999 **Samsung Telecommunications America - Richardson, Texas Principal Engineer**

- Responsible for Service Control subsystem of Samsung's next generation wireless broadband UMTS switching system. Designed and developed a Java based platform for defining services for Samsung's next generation high-speed wireless switch. Areas of responsibility

include traditional telephony services, wireless services, broadband services, and Internet services, such as an email portal. While at Samsung, I was also their corporate representative to the International Telecommunication Union, ("ITU"), which is the agency of the United Nations responsible for information and communication technologies. I was also Samsung's corporate representative to the 3GPP standards body. It was there that I participated in the development of standards for advanced wireless networks, including multimedia transport.

1995 – 1996 **DSC Switch Products Division – Plano, Texas**

Senior Manager: Intelligent Network Evolution and Business Planning

- Responsible for architecture and development of DSC's Intelligent Network product line. These products demonstrated at SuperComm 1996; a U.S. telecommunications trade show showed the integration of streaming media servers together with the interactivity of the Internet. I also actively interacted with key customers on their system designs and participated in relevant standards work.

Senior Manager: ATM Systems Engineering Group

- Lead the systems engineering group in defining a new high-speed ATM switches for enterprise and telecommunication networks. These efforts include, multiprocessor architectures, communications subsystems, and software architectures. In addition, I was responsible for responding to RFIs and RFPs for a number of clients server based multimedia systems and served as DSC corporate representative to the ATM Forum.

1990 – 1995 **AT&T Bell Laboratories - Columbus, Ohio**
Member of Technical Staff

- Designed and implemented a variety of multiprocessor systems for use in the computer/multimedia systems. These systems included Asynchronous Transfer Mode 'ATM' based Internet and video distribution system. I also participated in the design and development of client server based systems for database access. At this time, I also began my work with standard settings bodies. While at AT&T Bell Laboratories in 1990s, I was charged with monitoring standard setting bodies such as the ATM Forum and DAVIC, the Digital Audio-Visual Council.

1989 – 1990 **General Motors Research Laboratories Warren Michigan**

Senior Research Engineer: Computer Science Department

- Conducted research into basic computer science problems associated with the future development of vehicular systems. These areas include the design of fault tolerant control systems, new cost affective microprocessor architectures and software for reliability and performance modeling. Lead the development of an automotive testbed for the evaluation of prototype systems.

1988 – 1989 **Harris Communications – Melbourne, Florida**
Principal Engineer

- Conducted research and development into innovative computer systems for use in space systems. Studied coherency protocols for microprocessor memory systems. Developed fault tolerant multi-processor computer systems for use in Strategic Defense Initiative.

PUBLICATIONS

Olivier, J., Ozguner, F. "*A navigation algorithm for an intelligent vehicle with a laser rangefinder*", Proceedings of the 1986 IEEE International Conference on Robotics and Automation, Vol. 3, April 1986.

Olivier, J. L. and Ozguner, F. "*Design of Concurrent Error Detecting Systolic Arrays Using GAN Codes*" IEEE Transactions on Computer Aided Design, vol. 9, no. 10 October 1989.

Olivier, J.L. "*Low Cost Residue Prediction for Improved Addition Efficiency*", G. M. Research Publication, December 1989.

Olivier, J.L. and Tkacik, T.E., "*RELY, a Markov Modeling Package for System Reliability Prediction*" G.M. Research Publication, January 1990.

ISSUED PATENTS AND PATENT APPLICATIONS

- US 8334775 RFID-based asset security and tracking system, apparatus and method Network based asset management system.

- US 20090174772 Security and surveillance system

Network based surveillance and security system.

- US 20130201337 Rfid-based asset security and tracking system, apparatus and method

Network based asset management system.

ADDITIONAL ACTIVITIES

Member of the Advisory Board for the Innovation Hub for the Dallas County Community College District.

Fellow at SMU's Hunt Institute for Engineering and Humanity.

Chairman of IEEE Dallas Blockchain Group

Cases Worked Past 5 Years

Year Engaged

2022

Expert Engagement:	Litigation
Type of Matter:	Provide Opinion
Case Name:	Telecom Network Solutions, LLC v. T-Mobile USA, Case No. 2:21-cv-00418-JRG
Engaged on behalf of:	T-Mobile and Sprint Spectrum
Technology at Issue:	QoS in Cellular Networks
Services Provided:	Consulting
Law Firm:	K&L Gates LLP
Year Engaged:	2022

Expert Engagement:	IPR
Type of Matter:	Inter partes review
Case Name:	PTAB IPR on U.S. Patent No. 7,623,003 and 8,766,797
Engaged on behalf of:	Qualcomm
Technology at Issue:	Sensor networks
Services Provided:	Wrote Declarations
Law Firm:	Norton Rose
Year Engaged:	2022

Expert Engagement:	Litigation
Type of Matter:	Inter partes review
Case Name:	PTAB IPR on U.S. Patent No. 10,325,159
Engaged on behalf of:	Vivint
Technology at Issue:	Electronic Monitoring
Services Provided:	Wrote Declarations
Law Firm:	Foley and Lardner

Year Engaged:	2022

Expert Engagement:	Patent Review
Type of Matter:	Inter partes review
Case Name:	PTAB IPR on U.S. Patent No. 9,965,233
Engaged on behalf of:	Roku, Inc.
Technology at Issue:	Protected or Encrypted Content delivery over Internet
Services Provided:	Wrote Declarations
Law Firm:	Perkins Coie
Year Engaged:	2022

Expert Engagement:	Litigation
Type of Matter:	Expert Consulting
Case Name:	Corrigent Corporation v. Cisco Systems, Dell and Arista Networks 6:22-cv-00396-ADA-DTG, 1:22-cv-00496-RGA, 22-497-RGA
Engaged on behalf of:	Corrigent Corporation.
Technology at Issue:	3GPP Network Elements
Services Provided:	Wrote Declaration
Law Firm:	Steptoe & Johnson
Year Engaged:	2022

2021

Expert Engagement:	Litigation
Type of Matter:	Inter partes review
Case Name:	PTAB IPR on U.S. Patent No. 7,979,070
Engaged on behalf of:	Thales AIS DIS
Technology at Issue:	Signaling Messages in 3GPP networks
Services Provided:	Wrote Declaration
Law Firm:	AddyHart LLP
Year Engaged:	2021

Expert Engagement:	Litigation
Type of Matter:	Inter partes review
Case Name:	PTAB IPR on U.S. Patent No. 10,346,114
Engaged on behalf of:	Roku, Inc.
Technology at Issue:	Content delivery over wireless networks
Services Provided:	Wrote Declarations
Law Firm:	Perkins Coie
Year Engaged:	2021

Expert Engagement:	Litigation
Type of Matter:	Inter partes review
Case Name:	PTAB IPR on U.S. Patent No. 7,580,388
Engaged on behalf of:	Thales AIS DIS
Technology at Issue:	Signaling Messages in 3GPP networks
Services Provided:	Wrote Declarations
Law Firm:	AddyHart LLP
Year Engaged:	2021

Expert Engagement:	PTAB
Type of Matter:	Inter partes review
Case Name:	PTAB IPR on U.S. Patent No. 9,54,426, 10,924500, and 9,372,098
Engaged on behalf of:	Ericsson Inc.
Technology at Issue:	Signaling Messages in 3GPP networks
Services Provided:	Wrote Declaration, Deposition Testimony
Law Firm:	Baker Botts
Year Engaged:	2021

Expert Engagement:	PTAB
Type of Matter:	Inter partes review
Case Name:	PTAB IPR on

	U.S. Patent No. 10,601,948, 11,190,622, 11,206,317, 11,272,034
Engaged on behalf of:	Metacluster
Technology at Issue:	Computer networks
Services Provided:	Wrote Declaration
Law Firm:	Norton Rose
Year Engaged:	2021

2020

Expert Engagement:	Litigation
Type of Matter:	Patent
Case Name:	Intellectual Ventures I LLC and Intellectual Ventures II LLC v. VMware, Inc., Western District of Texas Case No. 6:19-cv-449
Engaged on behalf of:	VMware
Technology at Issue:	Layer 3 Networking
Services Provided:	Wrote Declaration
Law Firm:	Winston & Strawn
Year Engaged:	2020

Expert Engagement:	Litigation
Type of Matter:	Patent
Case Name:	Exafer Ltd. v. Microsoft Corporation, Case No: 20-CV-00131 ADA
Engaged on behalf of:	Microsoft
Technology at Issue:	Layer 2 forwarding
Services Provided:	Wrote Declaration
Law Firm:	Winston & Strawn
Year Engaged:	2020

Expert Engagement:	Litigation
Type of Matter:	Copyright
Case Name:	Apple Inc. v Corellium, LLC

	CASE NO. 9:19-cv-81160-rs Southern District of Florida
Engaged on behalf of:	Corellium LLC
Technology at Issue:	Software and image copyrights
Services Provided:	Wrote Declaration, attended deposition
Law Firm:	Hecht Partners LLP
Year Engaged:	2020

Expert Engagement:	Litigation
Type of Matter:	Inter partes review
Case Name:	PTAB IPR on U.S. Patent No. 7,894,443
Engaged on behalf of:	Thales AIS DIS
Technology at Issue:	Radio Link Control
Services Provided:	Wrote Declaration
Law Firm:	AddyHart LLP
Year Engaged:	2020

Expert Engagement:	Litigation
Type of Matter:	Inter partes review
Case Name:	Sisvel International S.A. and 3G Licensing S.A. v. Cradlepoint, Inc., Case No. 1:19- CV-1142-MN (District of Delaware)
Engaged on behalf of:	Cradlepoint and Sierra Wireless
Technology at Issue:	Radio Link Control
Services Provided:	Wrote Declaration
Law Firm:	Perkins Coie
Year Engaged:	2020

Expert Engagement:	PTAB Case No. IPR2021-00260
Type of Matter:	Inter partes review
Case Name:	PTAB IPR on U.S. Patent No. 9, 723,813 to Davis
Engaged on behalf of:	Tomofun
Technology at Issue:	Animal Interaction System
Services Provided:	Wrote Declaration
Law Firm:	Greenberg Traurig, LLP
Year Engaged:	2020

2019

Expert Engagement:	Litigation
Type of Matter:	Patent Investigation
Case Name:	SIMO Holdings v Hong Kong uCloudlink Networks Technology Limited and uCloudlink (America) LTD. CASE NO. 1:18-cv-05427 Southern District NY
Engaged on behalf of:	uCloudlink Ltd
Technology at Issue:	Wireless data links
Services Provided:	Wrote Declarations
Law Firm:	Fish & Richardson
Year Engaged:	2019

Expert Engagement:	Litigation
Type of Matter:	Patent Investigation
Case Name:	Harris Corporation v. Huawei Device USA, Inc., et al. Case No. 2:18-cv-439 ED-TX
Engaged on behalf of:	Huawei Device USA
Technology at Issue:	Network Security
Services Provided:	Wrote Declaration, Gave Deposition testimony
Law Firm:	Ropes & Gray LLP
Year Engaged:	2019

Expert Engagement:	Consulting
Type of Matter:	Consulting
Case Name:	
Engaged on behalf of:	Photobucket
Technology at Issue:	Photo distribution in wireless networks
Services Provided:	Analysis of content distribution in wireless networks
Law Firm:	Norton Rose
Year Engaged:	2019

Expert Engagement:	Consulting
Type of Matter:	Opinion regarding U.S. Pat. Application 2014/0192800,

Case Name:	
Engaged on behalf of:	SonicTube Research
Technology at Issue:	Packetized wireless networks
Services Provided:	Declaration
Law Firm:	SonicTube Research
Year Engaged:	2019

2018

Expert Engagement:	Inter Partes Review
Type of Matter:	Patent Review
Case Number:	IPR2017-00829, -00830, -01131, -01133
Engaged on behalf of:	Vidstream LLC
Technology at Issue:	Networked Video
Services Provided:	Wrote Declaration, attended deposition
Law Firm:	Norton Rose
Year Engaged:	2018

Expert Engagement:	Litigation
Type of Matter:	Patent Investigation
Case Name:	Arista Networks, Inc. v. Cisco Systems, Inc. No. 5:16-CV-00923-BLF (N.D. Cal.)
Engaged on behalf of:	Arista Networks
Technology at Issue:	Network protocols
Services Provided:	Signed Declaration
Law Firm:	Tensegrity Law Group
Year Engaged:	2018

Expert Engagement:	Litigation
Type of Matter:	Patent Investigation
Case Name:	Intellectual Ventures I LLC v. HCC Insurance Holdings Inc. CA No. 6:15-cv-00660 ED-TX
Engaged on behalf of:	HCC Insurance Holdings
Technology at Issue:	Back end web site technology

Services Provided:	Wrote expert report, attended deposition
Law Firm:	Norton Rose Fulbright
Disposition:	Settled
Year Engaged:	2018

2017

Expert Engagement:	Inter Partes Review
Type of Matter:	Patent Review
Case Number:	IPR2018-00287
Engaged on behalf of:	Comtech Mobile Datacom Corporation
Technology at Issue:	Vehicle Mapping Technology
Services Provided:	Wrote Declaration
Law Firm:	Perkins Coie LLP
Year Engaged:	2017

Expert Engagement:	ITC Matter
Type of Matter:	Patent Investigation
Case Name:	ITC Inv.No.337-TA-1057 Certain Robotic Vacuum Cleaning Devices and Components Thereof Such as Spare Parts,
Engaged on behalf of:	Shenzhen Silver Star Intelligent Technology
Technology at Issue:	Autonomous Vehicle Technology
Services Provided:	Wrote expert report, gave deposition and hearing testimony
Law Firm:	Pillsbury Winthrop Shaw Pittman
Year Engaged:	2017

2016

Expert Engagement:	Litigation and Inter Partes Review
Type of Matter:	Patent Investigation

Case Name:	International Business Machines Corp. v. The Priceline Group Inc., et al C.A. No. 15-137-LPS, and IPR2016-00608 and IPR2016-00609.
Engaged on behalf of:	The Priceline Group Inc.
Technology at Issue:	Web site Technology
Services Provided:	Wrote Expert Reports on Invalidity and Non-infringement. Attended Deposition.
Law Firm:	Norton Rose Fulbright
Year Engaged:	2016

Expert Engagement:	Litigation
Type of Matter:	Patent Investigation
Case Name:	Evolv, LLC v. Joyetech USA, Inc. Case No. 8:16-cv-00459-CJC-JCG CD-CA
Engaged on behalf of:	Joytech USA
Technology at Issue:	Computer controlled voltage source
Services Provided:	Wrote Declaration
Law Firm:	Pillsbury Winthrop Shaw Pittman LLP
Disposition:	Settled
Year Engaged:	2016

Expert Engagement:	Inter Partes Review
Type of Matter:	Patent Review
Case Number:	IPR2016-01431
Engaged on behalf of:	HCC Insurance Holdings
Technology at Issue:	Web site design; Network Agent Technology
Services Provided:	Wrote Declarations for IPR
Law Firm:	Norton Rose Fulbright
Disposition:	Settled
Year Engaged:	2016