

## Jeffrey J. Rodriguez, Ph.D.

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### Overview

Prof. Rodriguez has extensive experience in the field of electrical and computer engineering. His areas of expertise include signal/image/video processing and analysis, biomedical data analysis, communication systems, microprocessor systems, electric circuits, and related software development. At the University of Arizona, he is a faculty member in the Dept. of Electrical and Computer Engineering and Director of the Signal and Image Laboratory (SaIL).

He served as Co-Director of Connection One, a National Science Foundation multi-university research center on communication circuits and systems. In addition to more than 150 publications in the field, he has been very active in professional activities as a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE) and the IEEE Signal Processing Society.

Prof. Rodriguez served as General Chair of the 2016 IEEE Southwest Symp. on Image Analysis and Interpretation (SSIAI). In addition, during 2005–2011 he served on the IEEE Signal Processing Society Technical Committee on Image, Video, and Multidimensional Signal Processing. He served as General Chair of the 2007 IEEE Intl. Conf. on Image Processing (ICIP), as well as General Chair of SSIAI 2014, General Chair of SSMSD 2003, General Chair of SSIAI 1998, and Vice Chair of SSIAI 2004, as well as positions on numerous other professional committees. From 1996 to 2000, Prof. Rodriguez was Associate Editor of the journal, *IEEE Transactions on Image Processing*.

### Expertise

Image processing & analysis (filtering, enhancement, segmentation, pattern recognition, restoration, super-resolution, JPEG, watermarking, inpainting, etc.)

Video processing & analysis (filtering, enhancement, segmentation, pattern recognition, motion estimation, tracking, MPEG, watermarking, etc.)

Signal processing & analysis (speech, audio, filtering, Fourier analysis, etc.)

Biomedical data analysis

Computational photography (deblurring, enhancement, high dynamic range imaging, super-resolution, etc.)

Communication systems (signal conditioning, data compression, image & video communication, etc.)

Microprocessor systems (interfacing, programming, etc.)

Electric circuits (analog and digital)

Software analysis (C, C++, MATLAB, etc.)

### Education

Ph.D., The University of Texas at Austin, Electrical Engineering, May 1990

S.M., Massachusetts Institute of Technology, Electrical Engineering, June 1986

B.S., The University of Texas at Austin, Electrical Engineering, May 1984

June 16, 2021

## Employment

- 1990–present: The University of Arizona
  - 1997–present, Associate Professor of Electrical and Computer Engineering, with tenure
  - 2017–present, Associate Professor of Biomedical Engineering, with tenure
  - 2000–2003, 2005–2016: Director of ECE Graduate Studies
  - 2002–2017: Faculty member in the Biomedical Engineering Graduate Interdisciplinary Program
  - 2009–2014, Director of Image Analysis, Cancer Imaging Shared Services, Arizona Cancer Center
  - 2003–2008: Co-Director of Connection One, a National Science Foundation industry/university cooperative research center for communication circuits and systems
  - 1990–1997: Assistant Professor of Electrical and Computer Engineering
- 1986–1990: The University of Texas at Austin, Graduate Research Assistant in Dept. of Electrical Engineering
- 1985: Massachusetts Institute of Technology, Graduate Research Assistant in Dept. of Electrical Engineering
- 1982–1985 (summers): IBM Corp. (Austin, Texas) – hardware design and system programming
- 1980–1981 (summers): Texas Instruments, Inc. (Austin, Texas) – software quality assurance

## Consulting

Deposed 15 times. Testified in court 5 times.

*Confidential U.S. Dist. Ct. Matter*

Dates: Dec. 2020 –

*In the Matter of Certain Video Processing Devices, Components Thereof, and Digital Smart Televisions Containing the Same, Inv. No. 337-TA-1222*

Court: U.S. International Trade Commission

Dates: Nov. 2020 –

Client: LG Electronics Inc. and LG Electronics U.S.A., Inc. (resp.)

Complainant: DivX, LLC

Counsel: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

Technology: Video streaming

Deposed May 2021

*Intellectual Tech LLC v. Zebra Technologies Corporation, Case No. 6:19-cv-00628-ADA*

Court: U.S. District Court for the Western District of Texas, Waco Division

Dates: Oct. 2020 –

Client: Intellectual Tech LLC (pl.)

Counsel: Cole Schotz, P.C.

Technology: RFID controller system

Deposed Dec. 2020

*In the Matter of Certain Electronic Devices, Including Computers, Tablet Computers, and Components and Modules Thereof*, Inv. No. 337-TA-1208

Court: U.S. International Trade Commission

Dates: Sept. 2020 – March 2021

Client: Nokia Technologies Oy and Nokia Corporation (compl.)

Respondents: Lenovo, Inc. and other Lenovo companies

Counsel: McKool Smith

Technology: Video coding

Deposed March 10, 2021

*Inter Partes Review of Patent No. 7,064,768*, Case IPR2021-00434

Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board

Dates: Nov. 2020 – Jan. 2021

Client: Samsung Electronics Co., Ltd. (pet.)

Patent Owner: Pictos Technologies Inc.

Counsel: Paul Hastings LLP

Technology: Image processing; image filtering

*Inter Partes Review of Patent No. 7,199,821*

Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board

Dates: Oct. 2020 – Jan. 2021

Client: Apple Inc. (pet.)

Patent Owner: Maxell, Ltd.

Counsel: Erise IP

Technology: Image processing for electronic camera; white balance

*Inter Partes Review of Patent No. 6,349,154*, Case IPR2020-00479

Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board

Dates: June 2019 – Jan. 2021

Client: Google LLC (pet.)

Patent Owner: Uniloc 2017 LLC

Counsel: Paul Hastings LLP

Technology: Image and video data compression systems

*Ex Parte Reexamination of Patent No. 8,339,493*

Court: U.S. Patent and Trademark Office

Dates: Nov. 2020 – Dec. 2020

Client: Apple Inc. (pet.)

Patent Owner: Maxell, Ltd.

Counsel: Erise IP

Technology: Image processing for electronic camera; image resolution

*Inter Partes Review of Patent No. 7,012,960*, Case IPR2020-00757

Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board

Dates: June 2019 – Aug. 2020

Client: Google LLC (pet.)

Patent Owner: Uniloc 2017 LLC

Counsel: Paul Hastings LLP

Technology: Image and video data compression systems

*Inter Partes Review of Patent No. 9,769,477, Case IPR2019-01035*  
Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board  
Dates: April 2019 – Aug. 2020  
Client: Google LLC (pet.)  
Patent Owner: Realtime Adaptive Streaming LLC  
Counsel: Paul Hastings LLP  
Technology: Image and video data compression systems  
Deposed Feb. 2020

*Inter Partes Review of Patent No. RE46,777, Case IPR2019-01037*  
Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board  
Dates: April 2019 – Aug. 2020  
Client: Google LLC (pet.)  
Patent Owner: Realtime Adaptive Streaming LLC  
Counsel: Paul Hastings LLP  
Technology: Image and video data compression systems

*Inter Partes Review of Patent No. 7,386,046, Case IPR2019-01033*  
Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board  
Dates: April 2019 – Aug. 2020  
Client: Google LLC (pet.)  
Patent Owner: Realtime Adaptive Streaming LLC  
Counsel: Paul Hastings LLP  
Technology: Image and video data compression systems

*Inter Partes Review of Patent No. 8,339,493, Case IPR2020-00597*  
Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board  
Dates: Feb. 2020 – July 2020  
Client: Apple Inc. (pet.)  
Patent Owner: Maxell, Ltd.  
Counsel: Erise IP  
Technology: Image processing for electronic camera; resolution

*Inter Partes Review of Patent No. 6,329,934, Case IPR2020-00448*  
Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board  
Dates: June 2019 – July 2020  
Client: Google LLC (pet.)  
Patent Owner: Uniloc 2017 LLC  
Counsel: Paul Hastings LLP  
Technology: Image and video data compression systems

*Inter Partes Review of Patent No. 6,329,934, Case IPR2020-00447*  
Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board  
Dates: June 2019 – March 2020  
Client: Google LLC (pet.)  
Patent Owner: Uniloc 2017 LLC  
Counsel: Paul Hastings LLP  
Technology: Image and video data compression systems

*In the Matter of Certain Infotainment Systems, Components Thereof, and Automobiles Containing the Same*, Inv. No. 337-TA-1119

Court: U.S. International Trade Commission

Dates: Oct. 2018 – June 2019

Client: Broadcom, Limited (compl.)

Respondents: Toyota Motor Corporation, Panasonic Corporation, Denso Ten Limited, Renesas Electronics Corporation, Japan Radio Co., Ltd., et al.

Counsel: Steptoe & Johnson LLP

Technology: Graphics/image/video processing for automobile infotainment systems

Deposed April 5, 2019

Testified and cross-examined at trial, June 4 & 7, 2019

*Inter Partes Review of Patent No. 8,508,751*

Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board

Dates: April 2018 – May 2019

Client: Pathway Innovations and Technologies, Inc. (patent owner)

Petitioners: AVer Information Inc. and iPEVO, Inc.

San Diego IP Law Group LLP

Technology: Document cameras and video processing

Deposed Sept. 20, 2018

*Confidential IPR Matter*

Dates: July 2018 – Sept. 2018

*Confidential ITC Matter*

Dates: May 2018 – June 2018

*In the Matter of Certain Digital Cable and Satellite Products, Set-Top Boxes, Gateways, and Components Thereof*, Inv. No. 337-TA-1049

Court: U.S. International Trade Commission

Dates: July 2017 – Nov. 2017

Client: ARRIS International plc; ARRIS Group, Inc.; ARRIS Technology, Inc.; ARRIS Enterprises LLC; ARRIS Solutions, Inc.; ARRIS Global Ltd. (formerly Pace Ltd.); Pace Americas, LLC; Pace Americas Holdings, Inc.; Pace USA LLC; and Pace Americas Investments, LLC (resp.)

Complainant: Sony Corporation and Sony Electronics Inc.

Counsel: Fish and Richardson P.C.

Technology: Video receiver and video processing

*Inter Partes Review of Patent No. 7,720,294*

Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board

Dates: June 2017 – Sept. 2017

Client: Broadcom Corp. (patent owner)

Petitioner: Advanced Micro Devices, Inc.

Counsel: Swanson & Bratschun, LLC

Technology: Video decoding

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