

## Curriculum Vitae of Richard A. Flasck

My fifty year professional career has involved high tech product development, intellectual property (IP) issues, projection displays, lens and optical system design, thin film optical filters, non-imaging optics, LCD flat panel displays and modules, backlighting of flat panel displays, light emitting diode (LED) product development, injection molding, chip-on-board development, and High Definition Television (HDTV) systems.

I am an inventor on twenty-six patents (26), both US and foreign, including one US design patent. I have concluded several licensing agreements, demonstrating both technical innovation and expertise in Intellectual Property (IP) issues. Additionally, on several occasions I have testified before the US International Trade Commission and in US District Court as an expert witness on display and lighting technologies.

I am also an author of twenty-five (25) published papers and conference presentations.

### **Education**

- 1970 BS – Physics University of Michigan (Ann Arbor, MI)
- 1976 MS – Physics Oakland University (Rochester, MI)

### **Employment**

- 1989 – Present
  - Organization: RAF Electronics Corp.
  - Position: Founder and CEO
    - Developed, patented, and licensed Liquid Crystal on Silicon (LCOS) microdisplay technology. Engaged in development and patent prosecution of proprietary LED based Solid State Lighting (SSL) products. Etendue limited optics, non-imaging and hybrid optics, thermal management, layout and electronic drive of LED arrays. Expertise in semiconductor IC's, Active Matrix Liquid Crystals Displays (AMLCD), thin films, optics, and video electronics. Optics and electronics manufacturing, technical consulting and independent testifying expert witness work in numerous patent lawsuits.
- 2002-2007
  - Organization: Diablo Optics, Inc.
  - Position: Co-founder and COO
    - Development, production and commercialization of key optical components for HDTV projectors. Polarization optics, condenser lenses, projection lenses, ultra-high performance optical thin film stacks. Established, and managed international supply chain. Developed domestic and international customers.

- 1997 – 1999
  - Organization: Alien Technology Corporation
  - Position: President and COO
    - Responsible for successful MEM fluidic self-assembly (FSA) technology implementation and completion of a DARPA contract. Managed company growth from a four-person start-up to a VC funded twenty person operation. Cleanroom, photolith, thin film deposition (back-end) semiconductor processing.
  
- 1982-1989
  - Organization: Alphasil, Inc.
  - Position: Founder and CEO
    - Pioneered amorphous silicon thin film transistor (TFT) active matrix Liquid Crystal Displays (AMLCD). World's first amorphous silicon TFT LCD pilot line in 1986. TFT process and circuit design, data driver and gate driver design, scalars, video circuits, backlighting, and inverter design.
  
- 1970 – 1982
  - Organization: Energy Conversion Devices, Inc.
  - Position: Scientist, Manager
    - Originated, managed, developed, and licensed several high tech products including thin film photovoltaics, ablative imaging films, EEPROMs, multi-chip modules, and superconducting materials.

### **Professional Affiliations**

- Member - SPIE, OSA, SID, IEEE, AES
- Co-Chairman – SPIE/ IS&T Symposium on Electronic Imaging (1991 and 1992)
- Current Board Member - RAF Electronics Corp.
- Former Board Member - Alphasil, Inc., Somanetics Corporation, Diablo Optics, Inc.

## Testifying Expert Witness Experience in Patent Litigation

Date 2006 - 2007  
Law Firm Bingham McCutchen LLP  
Client Defendant - Seoul Semiconductor Company, Inc.  
Case Nichia Corporation v. Seoul Semiconductor  
3:06-cv-0162 United States District Court, Northern District of California  
Services Expert witness, reports, deposition, trial testimony

Date 2007-2008  
Law Firm Orrick, Herrington & Sutcliffe LLP  
Client Respondent - Acer Incorporated and Acer America Corporation  
Case Hewlett Packard v. Acer Incorporated et al.  
U. S. International Trade Commission Investigation No. 337-TA-606  
Services Expert witness, reports, deposition, ITC hearing testimony

Date 2008  
Law Firm Fish & Richardson P.C.  
Client Complainant - Samsung  
Case Samsung v Sharp  
U. S. International Trade Commission Investigation No. 337-TA-631  
Services Expert witness, reports, ITC hearing testimony

Date 2008 - 2009  
Law Firm Fish & Richardson P.C.  
Client Respondent - Samsung  
Case Sharp v Samsung  
U. S. International Trade Commission Investigation No. 337-TA-634  
Services Expert witness reports, deposition, ITC hearing testimony

Date 2008 - 2009  
Law Firm Howrey LLP  
Client Complainant - O2Micro  
Case O2Micro v Monolithic Power Systems, MicroSemi  
U. S. International Trade Commission Investigation No. 337-TA-666  
Services Expert witness, reports, deposition, ITC hearing testimony

Date 2014  
Law Firm Kenyon & Kenyon  
Client Petitioner: Sony  
Case IPR: No. IPR2014-0168 Patent: USP 7,612,843  
Services Declaration supporting IPR and litigation prep

Date 2014 - 2015  
Law Firm Prebeg, Faucett & Abbott PLLC  
Client Plaintiff - Masakazu Ushijima  
Case Ushijima v. Samsung  
1:12-cv-00318-LY United States District Court, Western District of Texas  
Services Expert witness, reports, deposition, trial testimony

Date 2015  
Law Firm Lerner, David, Littenberg, Krumholz & Mentlik, LLP  
Client Petitioner: Sony Corporation  
Case Delaware Display Group LLC and Innovative Display Technologies LLC v Sony Corp. et al., Case No. 1:13-cv-02111-UNA (D. Del.).  
Services Multiple expert declarations supporting IPR and litigation prep

Date 2015-2016  
Law Firm Marc Labgold PC  
Client IPR petitioner: Funai Corporation  
Case Funai v Gold Charm Limited Case No. IPR2015-01468  
Services Expert Declarations and deposition

Date 2015  
Law Firm Sidley Austin LLP  
Client Defendant Exar Corporation  
Case Phenix, LLC v Exar et al. Case No. 6:15-CV-00436-JRG-KNM.  
Services Expert Declaration and deposition

Date 2016  
Law Firm Kellogg, Huber, Hansen, Todd, Evans & Figel, P.L.L.C.  
Client Defendant Funai Corporation  
Case MiiC v Funai. C.A. No. 14-804-RGA.  
Services Expert Declaration

Date 2016  
Law Firm Gibson, Dunn & Crutcher LLP.  
Client Defendant Vizio, Inc.  
Case Delaware Display Group LLC v Vizio. Case No. 13-cv-02112-RGA.  
Services Expert Invalidity Report and Deposition

Date 2017  
Law Firm Andrews Kurth Kenyon LLP  
Client Defendant Sony.  
Case ARRIS v Sony US International Trade Commission Investigation No. 337-TA-1060  
Services IPR Expert Declaration

Date 2018  
Law Firm Taft Stettinius & Hollister LLP  
Client Petitioner BlueHouse Global, LTD..  
Case BlueHouse v Semiconductor Energy Laboratory Co. LTD IPR Petitions  
Services IPR Expert Declaration for five patents

Date 2018  
Law Firm K&L Gates LLP  
Client Defendant Wistron Corp.  
Case Phenix, LLC v Wistron Case No. 2:17-cv-00711-RWS  
Services Expert Declaration, deposition

Date 2018  
Law Firm Goodwin LLP et al.  
Client Respondent Absen et al.  
Case Ultravision v Absen et al ITC Investigation No. 337-TA-1114  
Services Expert Report

Date 2018  
Law Firm DLA Piper.  
Client Petitioner Viavi Solutions, inc..  
Case Viavi v Materion Corp PRG Unassigned US Pat No. 9,989684  
Services Declaration for PGR

Date 2019  
Law Firm Jones Day  
Client Petitioner NEC  
Case NEC v Ultravision IPR2019-01123, IPR2019-01117  
Services Declarations for IPRs

Date 2020  
Law Firm Russ August & Kabat  
Client Plaintiff Solas OLED Ltd.  
Case Solas v Samsung Case No. 2:19-cv-00152-JRG  
Services CC Declaration and Deposition

Date 2020  
Law Firm Russ August & Kabat  
Client Plaintiff Solas OLED Ltd.  
Case Solas v LG / Sony Case No. 6:19-cv-00236-ADA  
Services CC Declarations and Deposition

Date 2020  
Law Firm Russ August & Kabat  
Client Plaintiff Neodron  
Case Neodron v Lenovo / Motorola Case No. 3:19-cv-05644-SI  
Services CC Declaration

Date 2020  
Law Firm Russ August & Kabat  
Client Plaintiff Neodron  
Case Neodron v Dell Case No. 1:19-cv-00819-ADA  
Services CC Declaration

Date 2020  
Law Firm Russ August & Kabat  
Client Plaintiff Neodron  
Case Neodron v HP Case No. 1:19-cv-00873-ADA  
Services CC Declaration

Date 2020  
Law Firm Russ August & Kabat  
Client Plaintiff Neodron  
Case Neodron v Microsoft Case No. 1:19-cv-00874-ADA  
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Date 2020  
Law Firm Russ August & Kabat  
Client Plaintiff Neodron  
Case Neodron v Amazon Case No. 1:19-cv-00898-ADA  
Services CC Declaration

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