APPENDIX 1

Matthew B. Shoemake

Curriculum Vitae

Last updated August 12, 2021

Personal Information

Born **February 1971 in Pauls Valley, Oklahoma, USA**

Citizenship **United States of America**

Marital Status **Married to Bobbie Jo DeKay Shoemake since August 1998**

Children **One daughter, age 19, and one son, age 15**

Education

1999 **Ph.D. in Electrical Engineering**, *Cornell University*, Ithaca, New York.

1997 **M.S. in Electrical Engineering**, *Cornell University*, Ithaca, New York.

1994 **B.S. in Computer Science**, *Texas A&M University*, College Station, Texas, *with honors*.

1994 **B.S. in Electrical Engineering**, *Texas A&M University*, College Station, Texas, *with honors*.

1989 **Valedicatorian**, *Mexia High School*, Mexia, Texas.

Work Experience

2016–Present **Owner & President**, Peritum LLC, Fairview, Texas.
- Peritum provides expert consulting services.
- Providing services since 2008. Incorporated in 2016.

2008–2018 **President & CEO**, Biscotti Inc., Allen, Texas.
- Biscotti develops high-definition, video calling systems for the home and office.

2003–2008 **President & CEO**, WiQuest Communications, Inc., Allen, Texas.
- Developed world's first 1 Gbps ultrawideband chipset
- Developed world's first wireless VGA/DVI system for notebook computers
- Customers put into product: Dell, Toshiba, Lenovo, Belkin, D-Link and Kensington
- Built company from inception to 120 employees with offices and personnel in Texas, India, California, Taiwan and Japan.

2000–2003 **Director Advanced Technology, Wireless Networking Business Unit**, Texas Instruments, Inc., Dallas, Texas.
- Lead development of Bluetooth and Wi-Fi coexistence technology
- Lead TI efforts to enhance the IEEE 802.11 standards with quality of service extensions
- Lead development of very low power Wi-Fi technology for mobile phones
- Designed Wi-Fi into Nokia Communicator

1998–2000 **Manager, Baseband Systems Team**, Alantro Communications, Inc., Dallas, Texas.
- Developed 802.11b compliant physical layer
- Shipped over 100M units in 2nd generation of Intel's Centrino technology
- Company backed by Cisco and Vantage Point Venture Partners
- Acquired by Texas Instruments for $300MM

1991–1995 **Intern and Engineer, Digital Signal Processing Group**, Texas Instruments, Inc., Stafford, Texas.
- Product engineering for TMS320C2X Digital Signal Processors
- Applications engineering for TMS320C3X Digital Signal Processors

Ph.D. Dissertation

Title *Turbo Codes: Bounds and Applications, Ph.D., August 1999.*

Supervisor Professor Chris D. Heegard

Committee Members Professors Toby Berger, Chris D. Heegard, Dexter Kozen, Venugopal V. Veeravalli and Stephen Wicker

Masters Thesis

Title *Topics in Turbo Coding, M.S., May 1997.*

Supervisor Professor Chris D. Heegard

Fundraising

2010-2016 **$10M Series A**, Palomar Ventures, Biscotti Inc.

2009, 2016 **$1.35M Seed Investment**, Texas Emerging Technology Fund, Wham! Inc.

2008 **$50k Grant**, Allen Economic Development Center, Wham! Inc.

2008	**$420k Seed Round**, Private Individual Investors, Wham! Inc.
2007	**$5M Debt Line**, Triple Point Capital, for WiQuest Communications, Inc.
2007	**$23M Series C**, Lead by Adams Street Capital, WiQuest Communications, Inc.
2006	**$18M Series B**, Lead by Sequoia Capital, WiQuest Communications, Inc.
2005	**$50k Grant**, Allen Economic Development Center, WiQuest Communications, Inc.
2004	**$15M Series A**, Menlo Ventures, Palomar Ventures and iD Ventures America, WiQuest Communications, Inc.
2003	**$827k Seed Round**, Private Individual Investors, WiQuest Communications, Inc.

Computer Skills

Languages C, C++, Fortran, Python, Pascal, Java, Verilog, VHDL, BASIC, Matlab, LaTeX, Spice, Perl, shell scripting, various assembly languages, Lisp, Swift.

Standards and Protocols IEEE 802.3, IEEE 802.11, ADSL, HDSL, DOCSIS, Bluetooth, I^2C, I^2S, USB, CAN bus, HDMI, 3GPP, LTE, IS-95, EDGE, LTO, RS-232, HTTP, FTP, Telnet, Internet Protocol (IP), TCP, UDP, RTP, RTCP, SIP, STUN, TURN, ICE, CSMA/CD, CSMA/CA, ITU-T G.8031/8032, ITU, ITU-T J83B, MQTT, IEEE 802.15, IEEE 802.16, SSL, TLS, WEP, WPA, WPA2.

Professional Activities

2006-2020 **External Advisory Committee, Texas A&M University, Department of Electrical and Computer Engineering**

2008-2010 **Board Member, TeXchange, Dallas Chapter** TeXchange is a non-for-profit organization dedicated to helping entrepreneurs succeed.

2003-2004 **Chairperson, IEEE 802.11n Task Group** Lead committee of over 300 engineers through initial stages of standardization of data rate enhancements in excess of 100 Mbps

Jan. 2002 **IEEE 802.11 Meeting Organizer and Host, Wyndham Anatole, Dallas, Texas**

2000-2003 **Chairperson, IEEE 802.11g Task Group** Lead committee of over 200 engineers to set standard for 54 Mbps data rates in the 2.4 GHz band in a fashion that is backward compatible with IEEE 802.11b. Standard become the basis for the most widely used version of Wi-Fi.

Sept. 1999 **IEEE 802.11 Meeting Organizer and Host, Hilton Sonoma County, Santa Rosa, California.**

1999   **Chairperson, IEEE 802.11g Study Group**Lead committee of 20 engineers to set project requirements for IEEE 802.11g.

1991-Present   **IEEE Member**

Awards

2012   **CES Innovation Award for the Biscotti TV Phone**

2008   **CES Innovation Award for Wireless Digital Video Technology** This high-speed digital video technology shipped in notebook computers from Toshiba.

2006   **Intel Technology Innovation Award** Awarded to WiQuest for innovations in Wireless USB technology.

2003   **PC Magazine Technology Excellence Award for IEEE 802.11g** This award was bestowed on the IEEE 802.11 Working Group and the Wi-Fi Alliance for the protocols incorporated in the IEEE 802.11g standard under my leadership.

2002   **Texas Instruments Senior Member Technical Staff**

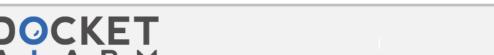1997-1998   **Intel Foundation Graduate Fellowship Award**

Consulting & Litigation Services

2021–Present   **Qualcomm Inc.**, Retained by Qualcomm's counsel Norton Rose Fulbright for consulting related to Wi-Fi.

2021–Present   ***AGIS Software Development LLC v. Lyft Inc., et al.*, Case No. 2:21-cv-00072-JRG (E.D. Tex.)**, Retained by Lyft's counsel, Baker Botts LLP.

2021–Present   ***Intellectual Ventures LLC I and II v. Hewlett Packard Enterprise Company*, Case No. 6:21-cv-226 (W.D. Tex.)**, Retained by HPE's counsel GreenBerg Traurig, LLP. Case involves U.S. Patent No. 6,816,464 and VOIP.

2021–Present   ***WSOU v. NEC***, Retained by NEC's counsel, Jones Day. Western District of Texas, Case Nos. 6:20-cv-00923-ADA, -00924, -00925, -00926, -00927.

2021–Present   ***Parker Vision v. Hisense and TCL***, Retained by Hisense and TCL via their counsel Kilpatrick Townsend & Stockton LLP. Generally related to direct conversion receivers.

2021–Present   ***In the Matter of Certain LTE-Compliant Cellular Communication Devices*, ITC Inv.No. 337-TA-1253**, Retained by Samsung via their counsel Quinn Emmanuel Urquhart & Sullivan, LLP..

2021–Present   **OnePlus Technology (Shenzhen) Co., Ltd. matter**, Retained via their counsel Morgan Lewis & Bockius LLP. Technologies relate to random access channels, power adjustment, qualify feedback, battery charge estimation, link adaptation, and buffer reporting.

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