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Robert Akl, D.Sc.



Professional Summary

Dr. Akl has over 28 years of industry and academic experience. He is currently a Tenured Associate Professor at the University of North Texas and a Senior Member of IEEE. He has designed, implemented, and optimized both hardware and software aspects of several wireless communication systems for CDMA, Wi-Fi, and sensor networks. Dr. Akl has broad expertise in wireless communication, Bluetooth, CDMA/WCDMA network optimization, GSM, LTE, VoIP, telephony, computer architecture, and computer networks. He is a very active researcher and is well published and cited. He has been awarded many research grants by leading companies in the industry and the National Science Foundation. He has developed and taught over 100 courses in his field. Dr. Akl has received several awards and commendations for his work, including the 2008 IEEE Professionalism Award and was the winner of the 2010 Tech Titan of the Future Award.

Dr. Akl has extensive experience with patents in the wireless and networking industry. In the past ten years, he has worked as a technical expert in dozens of patent related matters, involving thousands of hours of research, investigation, and study. He has repeatedly been qualified as an expert by Courts, and has provided numerous technology tutorials to Courts, and given testimony by deposition and at trial. He has worked with companies large and small, both for and against the validity and infringement of patents, and has also helped counsel and Courts to understand technology that often seems complex. In doing so, he has become familiar with, and actively worked with, the legal principles that underlie patentability and validity and claim interpretation in the wireless and networking industries.

Areas of Expertise

2G, 3G, 4G, 5G, CDMA/WCDMA, GPS, GSM, UMTS, LTE, Ad-hoc Networks, Antenna Design, Bluetooth, Call Admission Control, Channel Coding, Channel Estimation, Communication Interfaces and Standards, Compression, Computer Architecture, MIMO Systems, Multi-cell Network Optimization, Network Security, Packet-networks, Telephony, VoIP, Wi-Fi, Wireless Communication, Wireless Sensors.

Education

| <u>Year</u> | <u>College/University</u> | <u>Degree</u> | <u>GPA</u> |
|-------------|--------------------------------------|---------------------------------|------------|
| 2000 | Washington University in Saint Louis | D.Sc. in Electrical Engineering | 4.0 / 4.0 |
| 1996 | Washington University in Saint Louis | M.Sc. in Electrical Engineering | 4.0 / 4.0 |
| 1994 | Washington University in Saint Louis | B.Sc. in Electrical Engineering | 4.0 / 4.0 |
| 1994 | Washington University in Saint Louis | B.Sc. in Computer Science | 4.0 / 4.0 |

Graduated *summa cum laude* and ranked first in undergraduate class.

Dissertation: “Cell Design to Maximize Capacity in Cellular Code Division Multiple Access (CDMA) Networks.” Advisors: Dr. Manju Hegde and Dr. Paul Min.

Litigation Support and Expert Witness Experience

- L1. 2023 **Cole Schotz P.C.**
 Case: Vivint Inc. v. SB IP Holdings LLC
 IPR2022-00812
 Matter: *Inter Partes* Review, wireless telecommunication systems
 Project: Declaration to support Patent Owner’s response
- L2. 2023 **Carter Arnett**
 Case: Samsung Electronics Co., LTD v. G+ Communications, LLC
 IPR2022-01598
 Matter: *Inter Partes* Review, 4G/5G cellular systems
 Project: Declaration to support Patent Owner’s preliminary response
- L3. 2023 **Carter Arnett**
 Case: G+ Communications v. Samsung Electronics Co., LTD et al.
 Eastern district of Texas, Marshall division, Case No. 2:22-cv-00078-JRG
 Matter: Patent infringement, 4G/5G cellular systems
 Project: Standard essentiality consulting
- L4. 2022 **Kilpatrick Townsend & Stockton LLP**
 Case: TP-Link Technologies Co., Ltd. and TP-Link Corporation Limited v. Stingray IP Solutions
 IPR2022- *To be Assigned*; IPR2022-*To be Assigned*
 Matter: *Inter Partes* Review, security and intrusion detection in wireless systems
 Project: Two declarations to support two IPR petitions
- L5. 2022 **Devlin Law Firm**
 Case: CDN Innovations, LLC v. Mediacom Communication Corporation
 Middle district of Georgia, Columbus division
 Matter: Patent infringement, telecommunication systems
 Project: Declaration to support infringement contentions
- L6. 2022 **Jenner & Block LLP**
 Case: WSOU Investments, LLC v. Netgear, Inc.
 District of Delaware, Case No. 21-cv-01117-MN-CJB, 21-cv-01119-MN-CJB, 21-cv-01120-MN-CJB
 Matter: Patent infringement, adaptive antennas, routers
 Project: Declaration regarding claim construction

- L7. 2022 **K & L Gates LLP**
Case: Entropic Communications, LLC v. DirectTV, LLC, AT&T Services, Dish Network Corporation et al.
Eastern district of Texas, Marshall division, Case No. 2:22-cv-00075-JRG, 2:22-cv-00076-JRG-RSP
Matter: Patent infringement, satellite receivers
Project: Infringement consulting
- L8. 2022 **Simpson Thacher & Bartlett LLP**
Case: XR Communications, LLC. v. Ubiquiti Networks, Inc.
Central district of California, Case No. 2:21-cv-1065-DOC(JDE)
Matter: Patent infringement, Wi-Fi and adaptive antennas
Project: Non-infringement expert report, deposition
- L9. 2022 **Ropes & Gray LLP**
Case: Speir Technologies Ltd. v. Apple Inc.
Western district of Texas, Waco division, Case No. 6:22-cv-00077-ADA
Matter: Patent infringement, channel estimation
Project: Declaration regarding claim construction
- L10. 2022 **Fish & Richardson, P.C.**
Case: Constellation Designs, LLC v. LG Electronics, Inc. et al.
Eastern district of Texas, Marshall division, Case No. 2:21-cv-448
Matter: Patent infringement, channel coding
Project: Invalidity consulting
- L11. 2022 **Calfee, Halter & Griswold LLP**
Case: Resi Media LLC v. BoxCast Inc.
IPR2022-00066; IPR2022-00067
Matter: *Inter Partes* Review, autonomous broadcasting
Project: Combined declaration to support Patent Owner's response, declaration to support Patent Owner's sur-reply, deposition
- L12. 2022 **Fish & Richardson, P.C.**
Case: FedEx Corporation v. Transcend Shipping Systems, LLC
IPR2022-01117; IPR2022-01219; IPR2022-01252;
IPR2022-01261; IPR2022-01314
Matter: *Inter Partes* Review, location management
Project: Five declarations to support five IPR petitions

- L13. 2022 **Finnegan Henderson Farabow Garrett & Dunner LLP**
Case: Toyota Motor Corp and Continental Automotive Systems. v. Intellectual Ventures II, LLC
IPR2022-00971; IPR2022-00972; IPR2022-00973; IPR2022-00974; IPR2022-01130
Matter: *Inter Partes* Review, multicarrier communication
Project: Five declarations to support five IPR petitions
- L14. 2022 **Fenwick & West LLP**
Case: TrackThings LLC v. Amazon.com, Inc. et al.
Western district of Texas, Waco division, Case No. 6:21-cv-00720
Matter: Patent infringement, mobile ad-hoc networks
Project: Invalidity consulting
- L15. 2022 **Fenwick & West LLP**
Case: Stingray IP Solutions v. Amazon.com, Inc. et al.
Eastern district of Texas, Marshall division, Case No. 2:21-cv-00193-JRG; Case No. 2:21-cv-00194-JRG
Matter: Patent infringement, mobile ad-hoc networks
Project: Noninfringement consulting
- L16. 2022 **Mayer Brown LLP**
Case: Pantech Corp. v. Coolpad Group Ltd.
Eastern district of Texas, Texarkana division, Case No. 5:21-cv00065
Matter: Patent infringement, LTE wireless communication systems
Project: Infringement consulting
- L17. 2022 **Fitch, Even, Tabin & Flannery**
Case: L2 Mobile Technologies LLC v. Ford Motor Company
District of Delaware, Case No. 1:21-cv-01409-JLH
Matter: Patent infringement, wireless communication systems
Project: Standard essentiality consulting
- L18. 2022 **Susman Godfrey LLP**
Case: California Institute of Technology v. Samsung Electronics Co., Ltd. et al.
Eastern district of Texas, Marshall division, Case No. 2:21-cv-00446-JRG
Matter: Patent infringement, low-density parity-check codes
Project: Infringement consulting

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