



Exponent[®]
Engineering & Scientific Consulting

Jun Tian, Ph.D.

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Professional Profile

Dr. Jun Tian has over 20 years of science and technology experience specializing in Wi-Fi networking, satellite communication payload and cable access network. She conducts system architecture review, protocol design and analysis, new product integration and evaluation. She helps her clients where multiple technologies are employed for seamless communication.

Dr. Jun Tian has an extensive background working with embedded software, communication protocols, architecture optimization and partition. Her professional activities focus on meeting reliability and security needs for communication. Her experience in time critical software and high-speed logic design provides practical insights on the demanding nature of real-time systems.

Prior to joining Exponent, Dr. Tian served as a technical expert in 802.11 wireless communication leading new product qualification in major networking companies and certification entities. She had also served as an industry liaison to standard and certification organizations, e.g., IEEE, ANSI and CTIA.

Dr. Tian has extensive background in satellite communication, where she assisted customers in payload design, system integration and validation. She is also experienced with cable access network where she had collaborated with cable operators on feasibility research and architecture optimization.

Dr. Tian was accepted by Shanghai Jiao Tong University after ranking 5th in Shanghai in the national college entrance examination. Graduating as 1st in computer science department, she came to United States to pursue her dream with less than \$50. She supported herself as a teaching and research assistant to mathematics and engineering students and obtained her M.S. in Electrical Engineering and Ph.D. in Computer Engineering.

Academic Credentials & Professional Honors

Ph.D., Computer Engineering, University of Louisiana Lafayette, 1996

M.S., Electrical Engineering, University of Akron, 1991

B.S., Computer Science, Shanghai Jiao Tong University (SJTU), 1986

Prior Experience

MediaTek 2024-2025

Cisco Meraki 2021-2024

Wi-Fi Alliance 2016-2021

CableLabs 2012-2016

Boeing 2005-2012

Conexant 2001-2004

ViewLogic 2000-2001

Intel 1997-2000

Patents

Patent 9,596,622, “mesh network of access points for load balancing”.

Patent 9,009,353, “Split network Address Translation”.

Patent 6,560,286, “Field frame motion design for digital video decoder”

Project Experience

At MediaTek and Cisco, Dr. Tian had led verification on new generation SATCOM router and Wi-Fi 7 devices and had overseen new Wi-Fi 6 product qualifications and issue resolutions.

In Wi-Fi Alliance, Dr. Tian was a technology manager for launching new Wi-Fi product certification programs including Wi-Fi 6, security, massive device on-boarding and location. In addition, she had also led vulnerability studies with Wi-Fi ecosystem vendors to analyze reported incidents, which resulted in industry recommendations and countermeasure test suite.

As a subject matter expert with Boeing on satellite communication payload, she assisted customers in milestone reviews, requirement analysis, feature definition, interface design, interoperability testing and network resource planning.