

BHUMIP KHASNABISH

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NETWORK/SYSTEM ARCHITECTURE, SOLN. DEV./INTEGRATION/VALIDATION, ETHICAL AUTOMATION, and TECHNOLOGY STRATEGY



I work on and lead 5GA and any edge hosted API gateway, analytics, and AI/ML (RAG/RL/DL, etc.) based intelligent digitization and ethical automation services using standard/innovative solutions and Industry alliances/partnerships.

These services are deployable in smart manufacturing, healthcare and campuses/venues, warehouse, city, ports, FinTech platforms, etc. and save lives (improves security, safety & compliance) and tens of millions of dollars.

Very recently, I worked on prototyping and demonstrating Indoor location tracking and affiliated services without using any special tags (BLE, RFID, etc.) with improved accuracy and AI Chabot based user/customer interactions. Detailed information about other similar services and partners are available [here](https://www.verizon.com/business/5g-edge-portal/partners.html) (<https://www.verizon.com/business/5g-edge-portal/partners.html>). Some of these have been successfully deployed in Manufacturing, Healthcare, Ports/Warehouses, etc. networks.

Previously, I worked in (a) Verizon 2 on 5G/B5G and any-edge cloud based Strategic and Innovative services for consumers and Industry 4/5 offerings (b) Futurewei on open source tech. based Data to Action (D2A) solution w/wo Human in the loop, and ZTE on software-defined networking (SDN) and virtualization (e.g., NFV) based fifth generation (5G) networks, [smart devices](#), and services (cloud-native, network slicing and automation) including network [forensics](#) and Big Data systems/networks, (c) GTE and Verizon 1, on prototyping, demonstrating, standardizing, and deploying enhanced voice, data, and video services for business and residential customers, and (d) Bell-Northern Research (BNR) Ltd. (a part of Nortel) designing, implementing, and leading implementation of trunking, traffic management, and alarm generation software modules of Magellan Passport® multi-service frame cell switching product.

Looking for a Technology/Solution Development & Management role specialized in 5G-Advanced/6G, hybrid architectures, and Open Source (RAN/AI) components, focusing on accelerating automation and industry cooperation across edge cloud, IoT ecosystems, and smart device /services.

AI-Native Open/any-G Net
AI/ML, Edge Analytics
IIoT, Automation

Smart Data Centers and Grids
Network Security/Protection
Innovation & Standardization

Tech. & Proj. Management
Service/ Network Forensics
Industry Alliance Dev.

CAREER HIGHLIGHTS

Verizon 2

Lead/Dist. Engr – Product Engring. (INBS/ Strategy & Innovation): Worked on and Led a team of four Engineers for developing, vetting, prototyping, demonstrating, Standardizing (via GSMA) and patenting dozens of 5G/B5G and any – edge-hosted-any-resources based Consumer and Industry 4/5 solutions/services For co-sell/re-sell and scalable plus resilient deployment of these services, I created ecosystem partnerships. The services cover Accelerated access, Crowd management, Venue safety, Video production/distribution, Automotive safety, AV/VR/XR based events/training/QA management, Freight logistics, Retail inventory management, and many more

Futurewei

Sr. Technology Planning & Cooperation Program Manager: Designed/Developed Data to Action (D2A) architecture where raw data is ingested from private/hybrid Cloud-based systems and processed through predictive, analytic, and neural network models for deriving actionable intelligence and ultimately actions - with and/or without Human

intervention — via a cyber-physical system

ZTE

Senior Director/Specialist: Directed Strategic Standards and Product Development for 5G and virtualization-based networking and services, resulting in **successful standardization (ETSI NFV/ZSM, ONF, DMTF, IETF), marketing, and deployment of extremely agile networking/service platforms**

Verizon 1 / GTE

Distinguished Member of Technical Staff (DMTS): Developed Voice over IP (VoIP), Voice over ATM (VoA), and SIP NNI specifications and led SIP-based VoIP peering trials with multiple Carriers; Designed, and directed implementation of appliance-based session border gateway/controller (SBG/C) to support network border features/function for emerging voice and multi-media services; this **reduced infrastructure expenses by ~30-70%**

BNR / NORTEL

Member of Scientific Staff (MSS): Designed, implemented and led the integration of traffic management, trunking and alarm generation and maintenance system for Nortel's **flagship Magellan Passport multi-service frame cell switching product**

TEACHING AND BOARD EXPERIENCES

Developed and taught Courses on Cognitive and Cooperative Communications, Big Data Systems, Software-Defined Networking (SDN), Networking Technologies, Computer Networking, Data Communications, and Tech. Entrepreneurship in various US (in greater Boston area) and Canadian (in Ontario) Universities. Serving the community as a member of the Vision for Lexington (VFL, formerly Vision 20/20) and DCTF (Demography Change Task Force) committees of the Town of Lexington. Frequently volunteer for IFEL (<https://www.weareifel.org/>) providing advice to the budding Entrepreneurs and guiding them to improve pitch, promotion, outreach, solution, etc.

EDUCATION: Exec. Cert., Strategy & Innovation (MIT – Sloan), Cambridge, MA, USA
AMCPM - George Washington University (GWU), School of Business, DC, USA
PhD (EE) - University of Windsor & M. A. Sc. (EE) - University of Waterloo; both in Ontario, Canada