

## Michael J. Vincent

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### Employment

#### **The MITRE Corporation**

July 2017 – Present

*Principal Network Systems Engineer*

Direct work programs with a focus on integrating tactical edge networks, lead research in distributed systems coordination and cooperation, task leader and trusted advisor to sponsors. Subject matter expert in aerial networking modeling and simulation and enterprise architecture.

#### **BT Global Services**

September 2015 – June 2017

*Global Product Manager – Consulting Services*

Lead a global practice of over 80 consultants, defining and creating consultancy packages, supporting sales and delivery and interfacing with managed services and vendor partners. Developed and launched IPv6 and SD-WAN consultancy packages to four global regions, measured and surpassed sales targets in first year after launch.

#### **BT Global Services**

April 2013 – September 2015

*Practice Lead – U.S. & Canada*

Lead a community of over 25 network consultants, defining and creating network design and analysis consultancy packages, supporting sales and delivery. Created marketing and delivery material and launched several consulting and integration managed services including Network Discovery, Architecture Assessment, Unified Communications Readiness, and IP Address Management Audit.

#### **BT Americas**

June 2011 – April 2013

*Solutions Architect*

Working closely with product management and business development, lead on RFP responses, statement of work development and high-level designs of integrated solutions for our Top 200 accounts in U.S. & Canada region.

#### **BT Federal**

October 2008 – June 2011

*Principal Research Consultant*

Research consultant to MIT Lincoln Laboratory, a Federally Funded Research and Development Center. Held US Government Security Clearance for work involving next-generation high-speed satellite communications networking and unmanned autonomous vehicle mobile ad-hoc networks (MANET).

#### **BT Americas (formerly INS)**

January 1997 – October 2008

*Principal Consultant*

Consultant to large carriers, regional and multinational enterprises in diverse vertical markets. Responsible for program management, team leadership and project delivery. Engaged clients at director level and above as trusted advisor and partner.

Some notable engagements are provided below.

### **Novartis Institutes for BioMedical Research**

2004 – 2008

#### *Director of Network Operations*

Reporting to the Director of Research Computing, provided strategic support for local and global projects on a unified computing platform while also managing the operational support team at the global research headquarters.

- Member of the Global Architecture Board to define global IT strategy, identified opportunities in diverse business units and coordinated solution delivery.
- Lead design architect for \$500k global videoconferencing project to provide reliable collaboration for worldwide business units and reduce trouble calls by 50%.
- Secured funding and managed \$150k wireless upgrade and \$50k IP/TV multicast deployment.
- Lead architect for campus network upgrades to deliver high throughput switching, unified communications and the addition of a dedicated data center with 10x bandwidth capacity.

### **UMass Memorial Health Care**

2002 – 2004

#### *Lead Architect*

Reporting to the CIO as part of the \$1.5 million consulting engagement, assessed current infrastructure, led the development and proving of the architecture, drove the multi-campus transformation and led the migration teams in deployment of the network.

- Designed internetwork architecture including three redundant core blocks across three regional campuses connected via SONET and BGP with physical through network layer redundancy and converged data, voice and video Quality of Service (QoS).
- Developed database for tracking all aspects of the project – including the 150+ communications closets, all new inventory and assets, project timelines and migration deliverables.
- Authored white paper detailing the innovative migration techniques I developed and deployed that saved time and reduced vendor related costs for the customer by 75%.

### **Thomson Financial**

2001 – 2002

#### *Lead Architect*

Designed the next-generation wide area network for the Asia region and lead coordination of remote teams to migrate. Initial delivery included a technology evaluation and network design. Documented and presented design, implementation, testing and migration plans. Coordinated international teams to perform migrations during strict change windows.

### **Hughes Asia Pacific Ltd. / Hong Kong Airport Authority**

1997 – 1998

#### *Network Systems Engineer*

Relocated to Hong Kong for liaison position between the client and third-party system integrators and vendors during construction of the Hong Kong International Airport at Chek Lap Kok, the largest construction project in the world at that time.

- Defined vendor interface requirements and performed systems testing in large-scale integration testbed.
- Developed and maintained an inventory database for tracking all vendor interface requirements.

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### Experience

#### Publications

“6G Immersive Data Sharing: Capacity Analysis of Use Cases for Department of Defense” – MITRE (public release), 2022  
“Edge and Serverless: A Review of Vendors and the Practicalities of Implementation” – MITRE (public release), 2020  
BT Let’s Talk Blog (<http://www.globalservices.bt.com/blog/>) – Contributor, 2014 - 2017  
“Presence: The Case for Adopting a Converged Network” – INS Whitepaper; April, 2005  
“Easing Migrations with Local Area Mobility” – INS Whitepaper; October 2004  
“Multi-Area Network Simulation by Single-Area Analysis with WANDL Backbone Design Tool” – Lucent Internal Whitepaper, May 2001

#### Additional Skills

IP and IPv6 protocols, transports and applications; wide range of Cisco switches, routers, software and Unified Communications Manager products; Microsoft and Linux; automation and programming languages: C, Python, Perl; Data analysis languages and packages: SQL, Tableau, R; various test equipment including Ixia, packet capture and protocol testers.

### Education

#### Certifications

U.S. Government Clearance	(2008 – present)
Cisco Certified Network Professional (CCNP)	(issued February 1999)
Cisco Certified Design Professional (CCDP)	(issued December 2002)
Certified Information Systems Security Professional (CISSP)	(issued April 2001)
IPv6 Forum Certified Engineer (Gold)	(issued March 2012)
Lean Six Sigma Green Belt (course only)	(course completion August 2014)

#### University of Massachusetts Dartmouth

MBA – Information Systems and Supply Chain, focus on data analytics

#### University of Massachusetts Dartmouth

B.S., Computer Engineering