SUMANJIT AICH

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EDUCATION

Master of Science (M.S.), Geosciences

Department of Earth Sciences, Florida International University, Miami, FL, USA. (August 2002 to July 2005)

Structural Geology, Remote Sensing & Geographic Information System Specialization:

(GIS).

M.S. Thesis: Analysis of Fractured Terrain using Remote Sensing & GIS -

Establishing a Correlation between Fracture Network Properties &

Vegetation.

Master of Technology (M.Tech), Applied Geology

Department of Earth Sciences, Indian Institute of Technology (IIT) Roorkee [formerly University of Roorkee], Roorkee, UT, India. (August 1997 to July 2000)

Specialization: Earth Resources Technology, Remote Sensing & GIS.

Remote Sensing & GIS-based Studies of Arsenic Contamination of M.Tech Dissertation:

Groundwater in West Bengal, India.

Bachelor of Science (B.Sc), Geology

Presidency College, University of Calcutta, Kolkata, WB, India. (August 1994 to July 1997)

Specialization: Geology (Hons.), Chemistry & Mathematics.

Higher Secondary Examination, West Bengal Council of Higher Secondary Education St. Lawrence High School, Kolkata, WB, India.

(August 1992 to July 1994)

Academic Courses:

M.S. at USA: GIS, Remote Sensing, Hydrogeological Modeling, Structural Geology.

M.Tech at India: GIS & Pattern Recognition, Remote Sensing, Photogeology,

Environmental Geosciences, Geohydrology, Structural Geology, Engineering Geology, Rock & Soil Mechanics, Geoexploration, Geophysical Well Logging, Petroleum Geology, Physics, Chemistry,

Mathematics.

B.Sc at India: Geology, Chemistry, Mathematics.

High School at India: Physics, Chemistry, Mathematics, Biology.

EMPLOYMENT

• Program Manager - Digital & Software Engineering (D&SE), Engineering, Research & Development (ER&D) Global Business Line

Capgemini Technology Services India Limited, Pune, MH, India. (February 2019 to June 2021)

Being a GIS Solutions Architect, was responsible for pre-sales support & assisting in business development activities while working in coordination with global team of market units' personnel.

Worked on responses to Pre-qualification Questionnaires (PQQs), Expressions of Interest (EoIs), Requests for Information (RfIs), Invitations to Tender (ITTs), Requests for Proposal (RfPs) & Requests for Quotation (RfQs), besides preparation of Approach Notes, Pre-bid Queries (PBQs), Proof of Concepts (PoCs) & Technical Presentations for various inquiries & diverse clientele, namely:

- Application Managed, Development & Enhancement Services for AltaGas Ltd. (Calgary, AB, Canada), Washington Gas Light Company (Washington, D.C., USA), SEMCO Energy, Inc. (Anchorage, AK, USA) & ENSTAR Natural Gas Company (Port Huron, MI, USA).
- Technology Business Solutions & Support Services for American Electric Power (Columbus, OH, USA).
- Building Identification Numbering System for AIR Worldwide (Hyderabad, TS, India).
- Provisioning of Geospatial, Gridded & Time-series Data Stores & Services for the Bureau of Meteorology (Melbourne, VIC, Australia).
- Building Information Modelling (BIM) Common Data Environment (CDE) for the Department of Transport & Main Roads (Brisbane, QLD, Australia).
- Technology Information Services Capability Alignment on Liquid Pipelines, Gas Transmission & Midstream, Gas Distribution & Storage for Enbridge Inc. (Calgary, AB, Canada).
- Application Maintenance Services for Entergy Corporation (New Orleans, LA, USA).
- Application Managed Services for Equinor ASA (Stavanger, Vestlandet, Norway).
- Distribution Design & Estimation Tool Upgrade for Hydro One Limited (Toronto, ON, Canada).
- Geospatial Service Provider for KPMG International Cooperative (Sydney, NSW, Australia).
- Professional Services Tasks for the Municipal Utility District (Sacramento, CA, USA).
- Access Facilities Data Management for Network Rail Infrastructure Ltd. (London, ENG, UK).
- Exploration & GIS Data Management for Rio Tinto Limited (Melbourne, VIC, Australia).
- GIS Consolidation, System Integration & Data Migration for the South Australia Power Networks (Adelaide, SA, Australia).

- Digital Product Engineering & GIS Data Platform Support for Syngenta Crop Protection AG (Basel, BS, Switzerland).
- Geodata Management for The Deutsche Post AG (Bonn, NRW, Germany).
- Implementation of Enterprise-wide Integrated GIS Solution for Torrent Power Limited (Ahmedabad, GJ, India).
- System Assessment & Strategic Roadmap for UGI Utilities, Inc. (Denver, PA, USA).

Providing guidance for GIS data preparation & web application development while working closely with software developers. Projects & clients include:

- Development of an ESRI's ArcGIS-based Operations Dashboard on Aerodrome Live Fault Reporting & Engineering Data (ALFRED) for Digital Airside Operations Facility of Heathrow Airport Limited (London, ENG, UK).
- Feature identification, GIS-based data capturing & quality assurance of various Access Facilities, such as Access Paths, Gates, Path Junctions, Road Exits, Stations & Track Entrances for Network Rail Infrastructure Ltd. (London, ENG, UK).
- Maintenance & Support of GIS-based Applications for Posten Norge (Oslo, Austlandet, Norway).
- Feature identification from High-resolution Satellite Imagery (HRSI) & QGIS-based digitization of the Natural Geomorphological & Man-made Features of Mojave Desert (CA & NV, USA) as intended to monitor the impact of driving Off-highway Vehicles (OHVs) for The Nature Conservancy (Arlington, VA, USA).

Shortlisting, interviewing & selection of potential onsite & offshore candidates to be deployed in projects awarded by different clients:

- ESRI's ArcGIS & GE Smallworld-based Application Maintenance Services from Entergy Corporation (New Orleans, LA, USA).
- Schneider Electric's ArcFM Support Services from Hydro One Limited (Toronto, ON, Canada).
- ESRI's ArcGIS & VertiGIS' Geocortex Application Development & Maintenance Services from Jurong Town Corporation (Singapore).
- Staff augmentation for a PostgreSQL, PostGIS & Python Resource at Michelin India Technology Center LLP (Pune, MH, India).
- GE Smallworld-based Application Maintenance Services from National Grid USA Service Company, Inc. (Waltham, MA, USA).
- ESRI's ArcGIS-based Access Facilities Data Management from Network Rail Infrastructure Ltd. (London, ENG, UK).
- GE Smallworld System Assessment & Strategic Roadmap for ESRI's ArcGIS from UGI Utilities, Inc. (Denver, PA, USA).

Delivery Manager

iSpatial Techno Solutions Pvt. Ltd., Hyderabad, TS, India. (June 2018 to December 2018)

Responsible for overseeing timely execution & quality delivery of ESRI's ArcGIS-based web applications & mobile apps development projects to international clients, such as:

- Geographic Environmental Analysis & Reporting System for Sempra Energy (San Diego, CA, USA).
- Mobile GIS Forms for UtiliSync LLC (Sandy, UT, USA).
- Web-based GIS application & mobile app of Birdathon for Environment Agency & Etihad Airways (Abu Dhabi, UAE).
- Spatial Data Infrastructure for Abu Dhabi Systems & Information Centre (UAE).
- Custom-developed web-based GIS Story Maps on Special Olympics World Games Abu Dhabi 2019 (UAE).

Monitoring the Application Development of Software Products, such as:

- eCube Apps, cloud-based data collection & analysis software.
- eSmart Labs, chemical testing of machine oils & reporting software.
- Smart Field Geo, geo-enabled mobile software framework.
- Smart BrAeIn, an Internet of Things (IoT) analytics & Artificial Intelligence (AI)-based live monitoring dashboard software.

Other tasks included:

- Development of Proof of Concept (PoC) applications as part of pre-sales support.
- Preparation of technical proposals & delivering presentations for business development.
- Updating the contents of company's website & marketing collaterals.
- Overseeing human resources & day-to-day office administration-related activities.

Associate Senior Consultant - GIS

Bedrock Mineral Resource Consulting (BMRC), Sharjah, UAE. Deputed at the BMRC Geomining Solutions LLP, Lucknow, UP, India. (January 2018 to June 2018)

Major tasks include:

- Setting-up of GIS vertical & a application development team.
- Preparation of technical proposals & delivering presentations for business development.
- Development of Proof of Concept (PoC) applications as part of pre-sales activities.

Product Development:

- Development of Mining Vehicles' Tracking Mobile App, Web-based Visualization cum Reporting GIS Portal & a related Management Dashboard Mobile App.
- Development of Mining Cadastre cum Terrain Information System Web-based GIS Application.
- Development of Geoexploration Sample Collection Mobile App & an associated Visualization Portal.

• Project Officer - GIS Implementation, Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS)

United Nations Development Programme (UNDP), New Delhi, DL, India. Deputed at the Ministry of Rural Development, Government of India, New Delhi, DL, India. (December 2016 to December 2017)

Roles & responsibilities under the Governance & Accelerated Livelihoods Support (GOALS) project included:

- Serving as Technical Lead for Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA)-related GIS matters.
- Facilitating & monitoring the Geotagging of assets created under MGNREGS.
- Overseeing the designing, development, integration with other MGNREGA systems, testing & deployment of GIS database & application (Bhuvan-GeoMGNREGA GIS Portal).
- Grounding of a citizen-centric mobile app (Janmanrega).
- Ensuring the GIS implementation under MGNREGA across India, besides coordination & convergence between the national & state agencies for effective rollout.
- Interfacing with MGNREGA functionaries across all states & union territories of India to collate progress updates on project activities for overall status reporting.
- Developing GIS-related training programs & delivering presentation to stakeholders.
- Assisting in preparation of materials for meetings, symposia & conferences.
- Monitoring the helpdesk of MGNREGA & assisting in resolution of queries.

• Senior Manager - Project Management Unit, Spatial Solutions Division

IL&FS Environmental Infrastructure & Services Limited, Gurugram, HR, India. (October 2015 to October 2016)

Was responsible for implementation of integrated Information & Communications Technology (ICT)-based enterprise GIS software application-enabled e-Governance framework for Solid Waste Management (SWM) - collection & transportation for the:

- Central Zone of Municipal Corporation (South Delhi, DL, India).
- 14 Wards & Sweeping cum Washing of 84 Ghats under Municipal Corporation (Varanasi, UP, India).

Components & Modules included were:

- Global Positioning System (GPS)-based Vehicle Tracking (VT).
- Radio-frequency Identification (RFID) tagging-based SWM asset management.
- Biometric fingerprint-based attendance monitoring of SWM workers.
- Auto-generation of Management Information System (MIS) reports.
- Customers' complaints redressal system.
- Development of a web-based GIS application, as well as a mobile app.
- Development of a website & citizen portal.

Prepared Approach Notes, Expressions of Interest (EoIs) & Technical Responses to Requests for Proposal (RfPs) on:

- Monitoring of a solar park's construction progress using remote sensing & GIS-based techniques (Bhadla, RJ, India).
- Setting-up of National Data Registry for National Spatial Data Infrastructure (New Delhi, DL, India).
- Development of state's Spatial Data Infrastructure (SDI), as well as establishment of a geospatial data dissemination cell under state's data policy through a framework of enterprise GIS solutions (Bhubaneswar, OR, India).
- Geo-enabled property survey & implementation of Property Tax Information Management System (PTIMS) for municipal corporation (Pune, MH, India).
- GIS-based revamping of PTIMS for growing urban agglomeration in the contexts of transfer of development rights & citizen-centric service delivery (Hyderabad, TS, India).
- Development of web-enabled integrated infrastructure information system using remote sensing & GIS for Asian Development Bank-funded environmental improvement investment program (Kolkata, WB, India).
- Creation of geospatial database & development of web-based terrain Information management system application for mineral-bearing areas & leasehold villages (Gandhinagar, GJ, India).
- Geospatial & demographics data model development for Southeast Asian Countries, such as Indonesia, Thailand, Philippines & Myanmar, for multinational consumer goods company (Hindustan Unilever Limited, Mumbai, MH, India).
- GIS capacity building for national forest inventory under The World Bank-funded environmental services project (Tirana, SQ, Albania).
- GIS mapping under The World Bank-funded erosion & watershed management project (Abuja, FCT, Nigeria).

Delivered presentations & demonstrated PoCs to prospective client in environmental sector:

- Integrated enterprise forest GIS framework (Jaipur, RJ, India).

General Manager - GIS Solutions

CE Info Systems Private Limited [MapmyIndia], New Delhi, DL, India. (August 2013 to October 2015)

Managed key accounts for project execution, namely:

- Designing, development & implementation of Computer-aided Dispatch (CAD) solution for fire & emergency services department, where integration of Siemens Ltd.'s (Unify) telephony & voice logger with custom-developed CAD GIS application, installation of Vehicle Tracking (VT) Global Positioning System (GPS) devices & CarPad navigation devices in fire brigade vehicles were major components (Kolkata, WB, India).
- Designing, development & implementation of GIS-based road, street light & Property Tax Information Management System (PTIMS) applications for municipal council (Karnal, HR, India).
- Generation of customized GIS dataset, which was used for a Closed-circuit Television (CCTV)-based surveillance system by the Home Department of state government (Pune & Pimpri-Chinchwad, MH, India).

Was managing a group of software engineers for development of cloud-based Proof of Concept (PoC) GIS applications pertaining to ESRI's ArcGIS Server, as well as combination of ArcGIS Online platform & MapmyIndia's Application Programming Interfaces (APIs):

- Comprising of commonly used web-based GIS application-related tools & functionalities related to spatial data search, query & dissemination, while working closely with & providing guidance to software developers on using Flex API, Silverlight API & JavaScript API with Dojo Toolkit.
- Customization of various web GIS application hybrids (mash-ups) using exposed APIs from third-party solution providers.

Was responsible for writing Approach Notes, Expressions of Interest (EoIs) & Technical Responses to Requests for Proposal (RfPs) related to:

- Creation & updating of landbase GIS datasets for major cities of India (Bharti Airtel Limited, New Delhi, DL, India).
- Property survey & updating of basemap in Support Programme for Urban Reforms (Patna, BH, India).
- Development of web-based GIS applications on Property Tax Information Management System (PTIMS) for city municipal bodies (Ambala, Faridabad, Gurugram & Karnal, HR, India).
- Geodatabase creation for route mapping & roundtrip road distance computation for crude oil & petroleum products company (Indian Oil Corporation Limited, New Delhi, DL, India).
- Development of geo-marketing application for visualization of dealer network coverage & estimation of territorial sales performance in Southeast Asian Countries for multinational company (AkzoNobel India Ltd., Gurugram, HR, India).
- Development of GIS-based market potential & penetration analysis application for leading tools & machinery company (IFB Industries Ltd., Kolkata, WB, India).
- Integrated command & control system, comprising of GIS & GPS-based automatic vehicle tracking & distress call response management for state fire brigade department (Mumbai, MH, India).
- Authorization of navigation devices for No Refusal Taxis by government transport department (Kolkata, WB, India).

Additionally, was providing inputs to:

- Sales team on pre-bid queries, compliance matrices & solution architectures pertaining to GIS-based & telematics-based solutioning.
- Marketing team for preparation of collaterals, case studies & website contents.

Besides, was carrying out activities such as:

- Preparing & delivering presentations & demonstrations (on parcel information system, household income distribution, rural market planning etc.), highlighting company's technical capabilities to potential clients & prospective customers for new business development.
- Technical requirements analysis from customers & documentation, e.g. preparation of Software Requirements Specification (SRS) cum System Design Document (SDD) for AVIS India's electronic Rental Agreement (e-RA) project.
- Development of project & resource plans for ongoing projects, as well as preparation of progress reports.
- Collaborating with international technology partners, such as Mireo (Zagreb, Croatia) for technical guidance & suggestions to mash-up in-house custom-developed APIs with ESRI's ArcGIS technology stack.
- Understanding the business logic & APIs behind Slovak Sygic-offered route optimization solution, as well as NICE Systems, Inc.'s situation management solution.

• Executive Manager - Enterprise Geospatial & Defense Solutions

Rolta India Limited, Mumbai, MH, India.

(August 2012 to July 2013)

Was responsible for writing Expressions of Interest (EoIs) & technical responses to Requests for Proposal (RfPs) related to:

- Delineation of eco-sensitive zones around wildlife sanctuaries.
- Cyclone & earthquake hazards, vulnerability & risk assessment.
- Land records, municipal development & urban reforms.

Development of Proof of Concepts (PoCs) & delivering presentations for business development on:

- Geospatial technology in forestry.
- Mapping of railways' & ports' assets from High Resolution Satellite Imagery (HRSI), as well as development of web-based railways' & ports' assets GIS applications.
- Geospatial framework in disaster management for risk & vulnerability assessment to last mile connectivity using web-based GIS applications.

Was involved in product management & technical marketing of Rolta Geomatica software versions 2012 & 2013.

Manager - Solutions

NIIT GIS Limited (esri India), New Delhi, DL, India. (April 2011 to August 2012)

While engaged as a Group Head of pilot technologies, was managing a group of individuals working towards advancements of ESRI's ArcGIS technology, with key responsibilities as mentioned below:

- Understanding & capturing business requirements from customers.
- Preparing & delivering technical presentations for business development.
- Supervising software development for Proof of Concept (PoC) web-based GIS applications & demonstrating those to prospective clients.

Was deputed at representative's office of NTT Data Corporation for participating in technical discussions & meetings, as intended for preparation of a Middleware System Design Document (SDD) for National Spatial Data Infrastructure (NSDI) development project (Jakarta, JW, Indonesia).

As a Project Manager, was responsible for:

- Writing technical proposals pertaining to software development for ArcGIS Desktop, Server & Mobile GIS applications.
- Effort estimation for geospatial data analyses & application development.
- Designing of solution architectures in server & enterprise domains.
- Preparation of project plans, project schedules, Software Requirements Specification (SRS) documents, System Design Documents (SDDs) & progress reports.
- Project execution, monitoring & controlling.

Projects executed include:

- Development of a web-based GIS application for thematic generation & Decision Support System (DSS), based on the 8th Annual All India School Education Survey carried out by National Council of Educational Research & Training (NCERT). Client was the National Informatics Centre Services Inc. (NICSI), New Delhi, DL, India.
- Development of a web-based GIS application with management dashboard for the Bharat Sanchar Nigam Limited (BSNL). Client was the National Informatics Centre Services Inc. (NICSI), New Delhi, DL, India.
- Development of a desktop-based war gaming GIS application for the Military College of Telecommunication Engineering (MCTE) - Mhow Cantonment, MP, India.

• GIS Analyst - III

BCI Engineers & Scientists, Inc., Lakeland, FL, USA. Was deputed at the St. Johns River Water Management District, Palatka, FL, USA. (October 2010 to February 2011)

Was responsible for GIS-based analyses of environmental systems, management of time series datasets for surface water quality monitoring network, geostatistical modeling for water supply impact study & testing of custom-developed desktop tools for mapping of floodplains within the drainage basins of St. Johns River as intended for restoration, protection & preservation of the water resources to maintain biological diversity & productivity.

Project carried out was:

 GIS-based delineation of 100-year floodplain of the St. Johns River using Hydroperiod Tool for comparison with floodplain generated by the Federal Emergency Management Agency (FEMA).

Senior Geographer

GMR Aerial Surveys, Inc. (d/b/a Photo Science, Inc.), St. Petersburg, FL, USA. Was deputed at the South Florida Water Management District, West Palm Beach, FL, USA. (October 2006 to October 2010)

Was responsible for geospatial analyses & creation of GIS database for monitoring of the Everglades Protection Area & Florida Bay regions, which included mapping of the historical Everglades' topography, landscape features & invasion of exotic species in South Florida's environment as intended for successful restoration of the ecosystem.

Projects carried out were:

- Geospatial analyses of ridge & slough in Everglades Protection Area with the aid of digital image classification & GIS-based techniques.
- Investigation of early post-drainage aspects of the Everglades Agricultural Area based on historic land & canal surveys.
- Development of a GIS database for the Loxahatchee Impoundment Landscape Assessment.

 Geospatial study of a drowned ghost tree island within Water Conservation Area 2A of the Everglades Protection Area.

GIS Research Associate

GIS-RS Center, Florida International University, Miami, FL, USA. (July 2005 to October 2006)

Carried out geospatial modeling for research & development projects:

- Integrated Water Resources Management in Global Water for Sustainability Program (funded by United States Agency for International Development, Washington, D.C., USA).
- Andean Amazon GIS Web Portal (funded by Institute of Museum & Library Services, Washington, D.C., USA).

• Graduate Teaching & Research Assistant

Department of Earth Sciences, Florida International University, Miami, FL, USA. (August 2002 to June 2005)

Taught Introductory Geosciences, Structural Geology & Environmental Geology laboratory courses to undergraduate students of the university.

Additionally, carried out geospatial analyses in research & development projects:

- Using GIS to assess fracture zone development at multiple scales Implications for subsurface fluid flow in fractured rocks (funded by the United States Army Research Office, Adelphi, MD, USA).
- Characterization of heterogeneities at the reservoir scale Spatial distribution & influence of fluid flow (funded by United States Department of Energy, Washington, D.C., USA).

Assistant Engineer, Remote Sensing & GIS

Consulting Engineering Services (India) Private Limited, New Delhi, DL, India. (August 2000 to July 2002)

Produced satellite imagery-based land use / land cover maps for development of an early warning system for agricultural monitoring.

Additionally, carried out geospatial modeling for the monitoring & evaluation study of watersheds.

• Junior Research Assistant

National Institute of Hydrology, Roorkee, UT, India. (January 2000 to July 2000)

Carried out GIS analyses in a research & development project:

 Study of artificial recharge in alluvium & hard rocks of Maharashtra in India (funded by The World Bank, Washington, D.C., USA).

PUBLICATIONS

• Aich, S. & M.R. Gross. 2008. Geospatial analysis of the association between bedrock fractures & vegetation in an arid environment. International Journal of Remote Sensing, 29 (23): 6937-6955.

- Aich, S. & T.W. Dreschel. 2011. Evaluating Everglades peat carbon loss using geospatial techniques. Florida Scientist, 74 (1): 63-71.
- Aich, S., T.W. Dreschel, E.A. Cline & F.H. Sklar. 2011. The development of a Geographic Information System (GIS) to document research in an Everglades physical model. Journal of Environmental Science & Engineering, 5: 289-302.
- Aich, S., C.W. McVoy, T.W. Dreschel & F. Santamaria. 2013. Estimating soil subsidence & carbon loss in the Everglades Agricultural Area, Florida using geospatial techniques. Agriculture, Ecosystems & Environment, 171: 124-133.
- Aich, S., S.M.L. Ewe, B. Gu & T.W. Dreschel. 2014. An evaluation of peat loss from an Everglades tree island, Florida, USA. Mires & Peat, 14 (2): 1-15.
- Dreschel, T.W., S. Hohner, S. Aich & C.W. McVoy. 2018. Peat soils of the Everglades of Florida, USA. Peat, IntechOpen, 3: 29-45.

ACCOMPLISHMENTS

- Awards (2007-08) for poster presentations in South Florida GIS Expo (West Palm Beach, FL, USA).
- Grant-in-Aid (2004) from American Association of Petroleum Geologists Foundation (Tulsa, OK, USA).
- Merit Certificates (1992-93, 1994-95, 1997-98) under National Scholarships Scheme, Government of India (Kolkata, WB, India).

PROFESSIONAL ASSOCIATIONS

- American Geophysical Union since 2002 (Washington, D.C., USA).
- American Association of Petroleum Geologists since 2002 (Tulsa, OK, USA).
- The Geological Society of America since 2004 (Boulder, CO, USA).
- Zeta Alpha Chapter of Phi Beta Delta Honor Society for International Scholars since 2005 (Miami, FL, USA).
- Palm Beach Countywide GIS Forum since 2007 (West Palm Beach, FL, USA).

EXPERIENCE IN SOFTWARE

ESRI's ArcGIS: ArcGIS Online, ArcGIS Pro, ArcCatalog, ArcMap (ArcToolbox, Spatial

Analyst, Geostatistical Analyst, 3D Analyst, XTools Pro), ArcScene,

ArcPad.

ERDAS Imagine: DataPrep, Interpreter, Classifier, Modeler, Vector, Leica Photogrammetry

Suite.

Other GIS & Digital Image Processing

Software: ILWIS, MapInfo Professional, Surfer, Geomatica.

Photogrammetry

Software: DAT/EM Summit Evolution.

Charting Software: Grapher, SigmaPlot, KaliedaGraph.

Mathematical &

Statistical Software: StereoStat, Minitab.

TRAININGS

Introduction to Software Life Cycle Models (NIIT - Global Learning Services, 2012).

- PMP® Certification 4th Edition: Examining Professional Project Management (NIIT Global Learning Services, 2012).
- Capgemini University's MyLearning & Coursera (2019-21):
 - Geographic Information Systems (GIS), mapping & spatial analysis; GIS, cloud & connectors.
 - Integrated architecture framework; Principles of software engineering; Agile software development methodologies; Foundations of Lean Six Sigma; Fundamentals of Amazon Web Services (AWS); Azure fundamentals (Microsoft certified).
 - Introductions to Artificial Intelligence (AI), Machine Learning (ML), Natural Language Processing (NLP) & User Interface (UI) / User Experience (UX); Fundamentals of data science.
 - Fundamentals of project planning & management; Unified project management, service management & go-to-market; Market analysis; Engagement management; Product development, management, maintenance & support; Configuration & quality management; Commercial & contract management; Negotiating contract clauses; Bid management; Effort & pricing tool; Causal analysis.
 - Design thinking for innovation; Developing interviewing & interpersonal skills; Effective business writing & creating good presentations; Meeting management.

PERSONAL INFORMATION

Positions Held:

- Editor, Annual Magazine (1997-99), IIT Roorkee (Roorkee, UT, India).
- Captain, Swimming & Rowing Teams of Jawahar Bhawan (1997-99), IIT Roorkee (Roorkee, UT, India).
- Joint Secretary, Fine Arts Section of Hobbies Club (1998-99), IIT Roorkee (Roorkee, UT, India).
- Judge (2006-09), Palm Beach County Science & Engineering Fair (West Palm Beach, FL, USA).
- Chair, Registration Subcommittee (2007), South Florida GIS Expo (West Palm Beach, FL, USA).

- Volunteer Guide (2007), South Florida Science Museum (West Palm Beach, FL, USA).
- Volunteer Usher (2008), Kravis Center for the Performing Arts (West Palm Beach, FL, USA).
- Volunteer of Special Events (2008), Historical Society of Palm County (West Palm Beach, FL, USA).
- Chair, Mapping Subcommittee (2009), Palm Beaches Marathon Festival (West Palm Beach, FL, USA).
- Volunteer of Disaster Relief (2009), American Red Cross (West Palm Beach, FL, USA).
- Vice-chair, Volunteer Headquarters (2010), SunFest Jazz Festival (West Palm Beach, FL, USA).
- Volunteer of Outreach Events (2010), Palm Beach County Sheriff's Office (West Palm Beach, FL, USA).

Interests: Reading, Listening to Music, Volunteering in Community Events & Nonprofit

Organizations.

Date of Birth: May 15th, 1975.

Marital Status: Unmarried Single.

REFERENCES

Available upon request.