

# NITHIN

# SOLVARAJAN



## TECHNOLOGICAL EXPERTISE

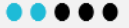
Microstation



Primavera 6



SCADA



Simbool



MS Office Suite



MS Projects



Test Conductor ADES2 (IXL Based Proprietary Tool)



E-Plan5.4(Intelligent CAD Tool)



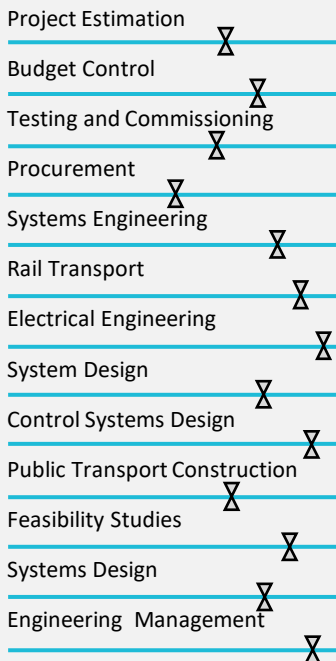
## CONTACTS

+99-41266601

support@resumewriteindia.com

O8 ,Jalan Ayer ,#03-01 ,Singapore -389244

## CORE SKILLS

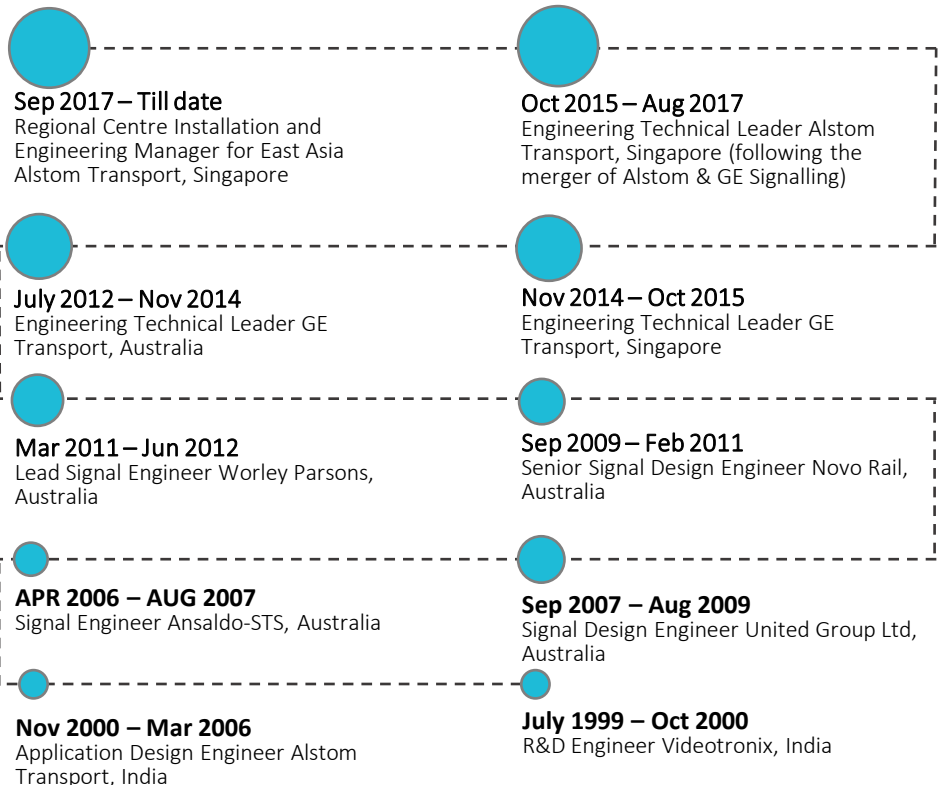


Leveraging his experience and best practices gained, administered and implemented from multiple projects ranging from metro rails to mainline heavy rail projects, Deepu is stepping forward with close to 2 decades of expansive experience in the field of Railway Signalling, He serves as a recognized technical specialist throughout, providing advice and consultancy for Rail Signaling Systems; including the development and review of technical specifications, engineering calculations, test procedures, analysis of equipment and system performance. Provides technical expertise/ assistance to staff including but not limited to the planning, scheduling and auditing.

As a Senior Expert, currently, designated as the Engineering Manager for the East Asian regions, Deepu exhibits expert level knowledge on signalling principles, Data Validation (IXL), microprocessor based interlocking applications of Design, Testing and Commissioning of applications related to circuits. Within Alstom, Deepu has been recognized and awarded as the Senior Expert in the year 2019.

Forging the bridge between ideas and success, our talented and innovative team members work together to address the challenges of the rail industry today, ensuring success, he has been an integral part of implying and sustaining the highest level of safety SIL4 on Alstom's interlocking (IXL), Ansaldo's Microlok, General Electric's ElectrologIXS products. He also has experience in ATP, CBTC and ERTMS projects. Recognized as a thorough leader with supreme people management skills, he utilizes his experience of working and leading teams remotely, spread across Italy, India, East Asian Countries & Australia.

## CAREER TIMELINE



## AFFILIATIONS

- ❖ Associate Member of Institution of Railway Signal Engineers (UK)
- ❖ Member of Institution of Electronics and Telecommunication Engineers (India)

## DIFFERENTIATOR

- Nominated as one of the most promising Engineers of the year while associated GE Worldwide in the year 2013 – 2014
- Recognized for providing and supporting tailor made solutions to avoid liquidated damages that could arise through operational loss as a part of GE Transportation
- Accredited for being able to assess client needs and develop tailor made solutions to best suit the project requirement
- Mentoring fresh graduates to take IRSE exams, Signalling Knowledge and Publishing Articles related to Railway Signalling and Automation

## SIGNATURE SKILLS

Signalling Principles & Systems Design	<div style="width: 80%;"></div>
Communication based Train control System	<div style="width: 90%;"></div>
ERTMS	<div style="width: 70%;"></div>
Signalling Specifications	<div style="width: 85%;"></div>
Team Management	<div style="width: 95%;"></div>
Project & Engineering Management	<div style="width: 90%;"></div>
Tenders and Bid Analysis	<div style="width: 80%;"></div>

- As Senior Expert of Alstom's World Class Engineering (WCE-France), provide expert advises to various projects globally
- Identify conflicts between activities and/or baselines and propose solutions/arbitrations.
- Interface with Global Engineering Director to ensure that resources are available, to get QCD commitment on each activity and to share visibility on workload.
- Ensure periodic Design Reviews on critical topics and Peer Reviews for critical documents

### GE, Australia and Singapore

- Accountability for Application Software (ElectrologiXS) and hardware delivery in conformance with the Client's programme of works.
- Resource management, and associated subcontractor management for works.
- Leading progress reporting to the Project Management team, including progress and look ahead schedule inputs.
- Confirmation of designs to client requirement as defined in the project technical documentation and associated supporting designs.
- Identification of Variations and EOT opportunities and steering RFI reviews prior to issue

### Worley Parson , Australia

- Development/Review of concept design, Drivers Diagram, Signalling Plan and Signalling functional specification, system requirement specification for Transport Construction Authority, Australia (TCA) .
- Interfaced Management with Client & other railway disciplines/subcontractors.

### Novo Rail , Australia

- Preparation of scope of work for vendors and sub-contractors.
- Development of Signalling functional Specification & support to estimation and procurement.
- Preparation of system requirement specification, Signal plan and concept plan development.
- Mentoring the fresh graduates for development, design and review of detailed circuit book, and design of interlocking data.

### UGL, Australia

- Designed Signalling Circuits on Route Relay Interlocking as well as Processor based interlocking.
- Design/Modification of Scheme plan/Control Table/Signalling Circuits as per the improvement plan of the client's network,
- Time estimation for design activities and site coordination for the design implementation.

### Alstom Transport , India

- Designed application related circuits, Preparation of control table as well as data, Script Development and validate the data for SIL4.

### VideoTronix , India

- Administered Technical study of customer requirements. Design of block diagrams, Implementation of the same in circuit level, making the prototype and testing the desired functionality

## GEOGRAPHICAL REMIT



Australia, East Asia (Vietnam, Singapore, Philippines, Thailand, Taiwan), Netherlands, & India

## SIGNIFICANT CONTRIBUTIONS

### Alstom - East Asia, Singapore Head Quarters

- Ensure the correct application of U300/U400 CBTC Solution.
- Contribute to Tender activities: review of Alstom Digital Mobility (ADM) commitments (technical consistency with U400 solution, feasibility with U400 roadmap).

## AREAS OF CRITICAL IMPACT

### Technical Leadership

- Manage a team of around 50 Engineers for location spanning into East Asia on day to day technical execution of the project.
- Assists in the development of all drawings, sketches and specifications required to complete a project design in a particular discipline.
- Assist in the creation and development of system designs for assigned projects.
- Assists Project Managers and Sr. Engineering Specialist with coordination of the design with other disciplines, attend design coordination meetings with members and client representatives.
- Assist in the studies and selection of equipment to fit the project design.
- Assists with specific engineering studies and design analyses and assists the Project Manager in establishing budgets, cost estimates and In-depth knowledge on in various Engineering Standards including EN,BS,IEC and NFC

### Compliance and Processes

- Practice company, client and industry standards and technical policies and procedures during the execution of projects for clients.
- Assist in coordination of contract documents with the construction administrators and performs on-site inspection during construction as required

### Project Management

- Manage assigned project work including scope, schedule, and budget and provide timely, quality milestone reporting.
- Guide the production of preliminary or final design signal drawings, technical specifications, technical reports, construction cost estimates, project schedules and cutover plans.
- Work with senior professional and leaders to develop strategies for key hiring pursuits, key project pursuits, team growth, sector growth, profitability, employee development and employee satisfaction.
- Work with Accounting Managers, Project Controllers and Project Managers as needed to achieve project goals and assist in the business of the firm.
- Responsible for implementing Quality Assurance and Quality Control procedures on transit systems projects.

### Functional Leadership and Operations

- Actively participates in professional organizations and/or client groups where the technical reputation and image of the firm may be enhanced.
- Assists senior staff with technical articles, presents technical papers and training seminars to appropriate technical groups to promote the professional image and reputation of the firm
- Represents the firm to clients and other outside groups where technical reputation and/or professional image of the firm are of paramount importance.

### Integrated Systems Testing and Commissioning

- Serve as technical consultant for major transit system projects.
- Apply theory, knowledge and experience in the management, analysis and design of multi-discipline transit and rail projects with high degrees of technical complexity making cost-effective design recommendations, monitoring design approaches and making final design decisions.
- Effectively coordinate and supervise the work of senior professionals and support staff during the entire project to complete project documents/plans/analysis on schedule.

### TEAM MANAGEMENT

- Mentor and develop less experienced staff by providing meaningful growth and training opportunities and recognize the importance of an engaged/fulfilled staff that likes their workplace and their company.

## KEY PROJECTS EXECUTED

- “Simulation Centre for Singapore Thomson East Coast Line ,Circle Line and North East Line “
  - Project description: Leading three independent projects , building a real time signalling simulation centre for the upcoming Thomson East Coast Line.
- CAL-TEL and ITTS projects of Singapore
  - Involved in project bidding and acquiring
- North East Line Extension (Singapore) | Feb 2019
  - Project description: North East Line is extended with another station and additional stabling tracks in the depot.
- Singapore Circle Line 6 | Dec 2017
  - Project description: To Complete the 'Circle' with additional 3 stations between Harbour Front and Marina Bay and KCD Depot Expansion.
- Manila Cavite Extension Project of Light Rail Transit Authority of Philippines | Oct 2017
- Thomson East Coast Line Project, Singapore | Nov 2014
- FMG, Perth, Australia | Aug 2013 – Nov 2014
- BHP Billiton -Perth, Australia | Jul 2012 – Aug 2013
- Sulphide Junction Re-Signalling, RailCorp, Sydney, NSW - Australia | Jan 2010 – Mar 2011
- Cronulla Line Duplication Project, NSW- Australia | Oct 2007 – Nov 2009
- Epping-Chatswood Rail Link, Sydney - NSW- Australia | Jun 2008 – Apr 2009
- Hunter Valley North Coast Signalling Alliance, New Castle, NSW-Australia | Apr 2006 – Sep 2007
- Betuwe Route, Utrecht, The Netherlands | Aug 2005 – Apr 2006
- Incheon Airport Rail Road Project, Korea | Jan 2005 – Apr 2006
- Delhi Metro Rail Project(DMRC), New Delhi-India | Apr 2003 – Dec 2005
- “Simulation Centre for Singapore Thomson East Coast Line ,Circle Line and North East Line “

## ACADEMIC QUALIFICATIONS

I am BE in Electronics and Communication from Mangalore university

**1995-1999**

Nitte Mahalinga Adyanthaya Institute of Technology

Mangalore University