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Senior Leader in Civil & Structural Engineering with 25+ years of total experience in AEC Industry Sectors, leading projects, operations and design teams in reputed Consultancy, Contracting and Property Development Organizations. Proven track record guiding sizeable teams of Engineers and Designers in Design of Industrial Structures, Multi - storeyed residential & commercial Buildings, Power Projects, Primary Substations, Grid Stations, Cement Plants, Paper Mills & IT Parks right from concept to delivery. Design Lead with notable achievements in completing projects encompassing Structural planning, analysis and design. Team Lead overseeing detailed engineering throughout Project Life Cycle with overall Project Management, Quality Management System & ISO Compliant Practices. Expert in building enterprises forging relationship with consensus across all Organizational Levels with Partners, Contractors, Consultants.

Career Highlights



Associated as Civil & Structural Design Lead with UK's leading Architects like Hamiltons, ATKINS, DP Architects (Singapore), Lawray Architects, Chapaman Taylor, CRGP Limited, Cowell Matthews, Redman+Sutherland, Austin-Smith Lord LLP, Waring and Netts, HLM Architects and Government Agencies like RPA (Railway Procurement Agency), METRO-UK and Cross Rail Limited London in completing around 25 projects of Construction of Schools, Colleges, Auditoriums, Theatres, Metro Rail Projects consisting of Underground Metro Stations, Ventilation & Evacuation Shafts, Vent Buildings.

Career Highlights

Engineering Management

Design Processes

Planning & Execution

Revision & Change Management

Project Planning & Control

Financial & Contract Negotiations

Resource Allocation & Management

Organization & Team Building

Directorial Leadership

Customer Focus

Budgeting & Project Estimates

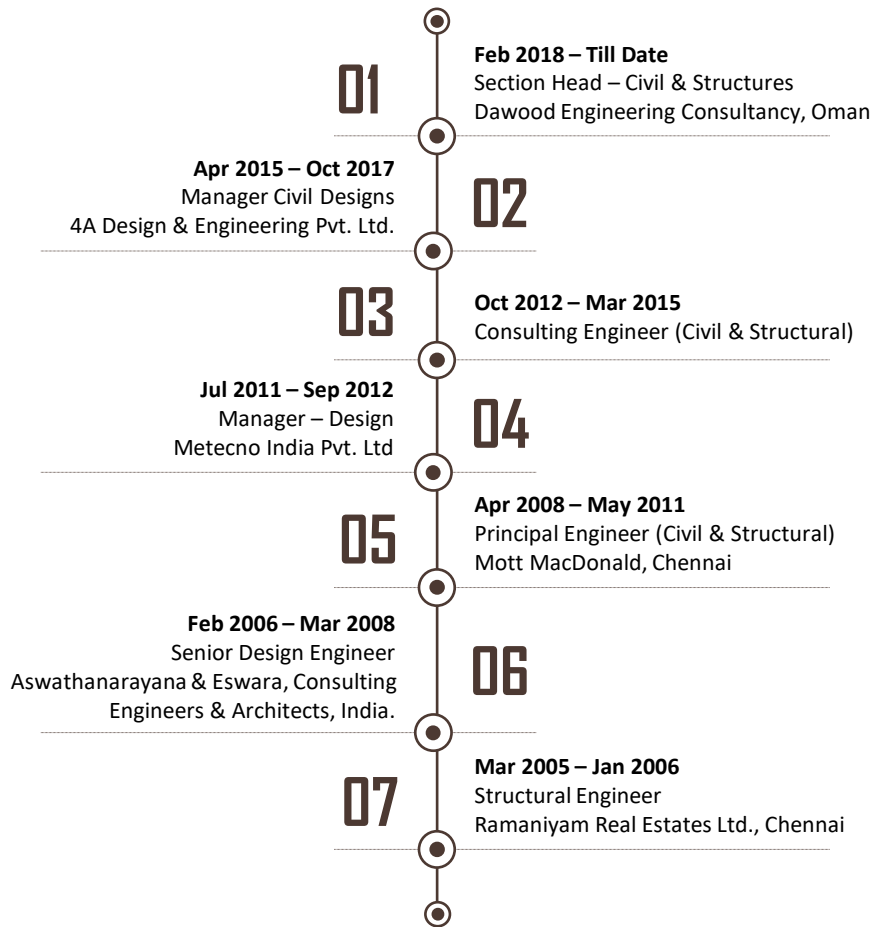
Cost Reduction & Avoidance

Design Optimization

Pre-bid Engineering

Proposal Engineering

Career Timeline



Functional Skills

Engineering Management:

- Project Brief and Design Philosophy development defining Technical Scope of Work in conjunction with Project Director.
- Preparation of preliminary designs and General Arrangement Drawings
- Design & Detailed Engineering Drawings and Calculations reviews by strictly following Design & Drawing Approval Protocol.
- Assist Project Director with fee proposal development, sourcing and selection of subcontracted consultants.
- Undertake project cost control practices and assist with compilation of project invoices.

Software Expertise

- Analysis & Design of Reinforced Concrete Structures, Steel Structures, RCC & Steel Composite Structures using STAADPro and STRAP.
- Finite Element Modelling & Analysis for Storage Structures like Bunkers, Silos and Tanks using STAADPro & STRAP.
- Building Information Modelling, Design and Coordination Revit Architecture, Revit Structure, Revit MEP & Navisworks platform.

Career Note

Additional Tenure as Technical Support Engineer at Ram Caddsys Pvt. Ltd., Senior CADD Engineer at CADD Centre India Pvt. Ltd., Design Engineer at Harrysons Consultants Pvt. Ltd., Heramba Engineers Pvt. Limited

Education

- SRM University, India, **M.Tech.in Structural Engineering**
- Alagappa University, India, **Master of Business Administration**
- Madurai Kamaraj University, India. **BE in Civil Engineering,**
- Department of Technical Education, Tamil Nadu, India. Diploma in Civil Engineering
- APTECH (Apple Industries Ltd.), Chennai, INDIA. Diploma in Information and Systems Management

Accreditations

- **American Society of Civil Engineers, C.Eng., MASCE,** (Chartered Engineers & Member)
- **Indian Association of Structural Engineers, P.Eng., MIAStructE** (Professional Engineer & Member)

- Negotiation of fee variations with clients in conjunction with Project Director.
- Training and direction of all Engineers and CAD Designers for Skill Development of team members to meet market demands
- Periodic review of resource requirements along with associates and Allocation of Resources for different projects.
- Implementation of Quality Management System, ISO Practices, Internal & External Quality Audits, raising NCRs & Closure on projects.
- Change & Revision Management monitoring Escalations, Changes in Scope of Work, Additional Works with critical focus that affects the overall organization with precision.

Structural Engineering

- Ensure to study Client Requirement, Project requirement and prepare design brief while thinking of possible design solutions.
- Conduct research on whether design will work and be cost - effective, asses the usability, environmental impact and safety of a design.
- Utilize Computer Aided Design (CAD) and Computer Aided Engineering (CAE) software to create economical designs with accuracy
- Carrying out Wind and Seismic Analysis considering different parameters with respect to latest using STAADPro & STRAP.
- Analysis, determination and design of various types of foundation like Footings, Pile & Raft Foundation for different types of structures with respect to Geo-technical Reports for various soil condition and types.
- Analysis and Design of Steel Structures like Buildings, Equipment Support Structures, Towers, Pipe Rack Systems etc. using STAADPro.

Project Management:

- Oversee, guide and manage internal, external construction managers, designers and planners.
- Coordinate all aspects of construction projects, including the design, permitting, and budget and scheduling in a precise manner.
- Prepare construction documentation, specifications, milestones and estimate in a timely manner.
- Ensure compliance with project standards, as well as regulatory and contract requirements with precision and focus.
- Proactively manage internal customers and provide periodic updates on projects as and when needed by the organization.
- Review and determine opportunities to improve construction budgets and schedules for enhanced performance
- Maintain and revise project processes, procedures and standards for all aspects of project delivery at all points of time.
- Assist in the preparation of annual budgets for all renovation and construction projects. Maintain budget status, forecast and cash flow reports for all approved projects.
- Engage with Procurement and Legal to prepare RFP's for architects, general contractors and other consultants, as well as assist in the negotiation of the agreements.
- Manage the commissioning and handover of projects to the facilities organization in a channelized manner.

Operations:

- Developing and aligning strategies with business priorities and developing standards and best practices for service delivery.
- Managing all facets of project management including planning, design, construction, and closeout throughout all Construction Stages.
- Reading and interpreting project and technical documents affecting projects, like agreements / contracts, leases, work letters, surveys, and drawings in a precise and comprehensive manner.
- Providing directions and leadership to the team in ensuring overall highest-level delivery, quality control and project management are followed at all points of time.
- Spearheading problem-solving, planning, organizing and decision-making activities across and within the organization in a timely manner.
- Leading major project team discussions and meetings for identifying appropriate actions and resolution at all points of time.

Quality Assurance:

- Acting as the primary and central head in leading and managing design phase constructability reviews in a timely manner.
- Provide solutions, recommendations and suggestions in accordance to design phase charrettes and advice on potential constructability and quality issues during the construction phase and other critical phases with focus and precision.
- Providing leadership, guidance and support in specific project QC plans with due diligence and commitment.
- Track, monitor and schedule correct action directives necessary in accordance to QC plans as and when needed by the organization.
- Manage and supervise 3rd Parties in the implementation and execution of the QA Program, project site inspections, QC reports, QC metrics and other related project support duties in a channelized manner.
- Assist in developing and maintaining metrics for QC compliance and analytics in a channelized manner.
- Assist with the development and deployment of company-wide QA / QC standards, best practices, policies and procedures with precision and focus.

Selected Project Achievements

Sub Stations consisting of GIS / Control Building, Transformer Foundations, Gantry Towers, Equipment Support Structures, Cable Trench & Tunnels and Boundary Walls for National Contracting Co. Ltd, Toshiba India in Gulf & African Countries, Algeria, Oman & India. EPC for 33/11 kV Substation Upgrade at Das Island including Coordination with 3D Models built in BIM on Revit & Navisworks platform.

Paper Mills comprising of RCC and Steel Buildings, Storage Towers, Pipe Rack Systems for leading Industries like TNPL, APPM Ltd., ITC Bhadrachalam Ltd., Seshasayee Paper & Boards Ltd., Emami Paper Mills Ltd., Abhishek Industries Ltd., JK Paper Mills Ltd., Sirpur Paper Mills Ltd., and BILT Ltd.

Power Projects: Industrial Buildings for companies as BILT Power Ltd., OPG Energy Limited, SEPCO Thermal Power Plant,

General Industries: Buildings for companies such as Sanmar Group of industries, Trubore Ltd., Foxconn India Pvt. Ltd., WS Industries Ltd., Motorola Ltd., Indotech Transformers Ltd., Greaves Cotton Ltd., Carborandum Universal Ltd., Ponni Sugars Ltd., SANY Heavy Industries, Pune, SAKATA Inks and Resins Project, Gujarat, PEB for Cyberpark, Calicut., NTPC and HAL. Cement Mill Building up to 45m height and Bunkers for companies like India Cements Limited and L&T Cements

IT Park & STP: LORDS (Virtusa), EMPEE Towers and BAID Hi-Tech Park with PT Slab Systems at Chennai for Structural appraisal and coordination. Sub-station buildings and Equipment Support Structures for Software Technology Park of India, Bangalore.

Apartments & Commercial Complex: Multi-storeyed buildings for residential and commercial purpose for leading Builders in Chennai up to 20 storeys - projects like Mandarin, Shine, Private, CITADINE Apart Hotel.

Overseas Projects: Shore Development Treble & Sky Ribbon Water Features at Abudhabi, Industrial Expansion for Imperial Tobacco at Russia, Buildings for Cross Rail in London, Schematic Design for Stations at Dublin Rail Project in UK, Concept Design of Theatre & Concert Hall for Royal Welsh College at UK, Northbrook College Campus of Steel Buildings at UK, Northness Office comprising of Steel Building at UK, Concept Design of Dilmunia Health Island, Bahrain. Coltness School Project at UK, Concept Design for Pipe Rack & Buildings MASDAR City at UAE, Pre-bid Engineering for STEP Tunnel Power Project in UAE, Police Administration Building in UK.

Significant Contributions

Dawood Engineering Consultancy, Oman | Section Head – Civil & Structures



Practice Lead for Civil & Structural disciplines with a team of 12 Engineers, CAD Designers and Project Managers for new Substations, Grid Stations, Upgradation of Substations from 11kV to 132 kV for Transmission and Distribution Agencies like Oman Electricity Transmission Company (OETC), Mazoon Electricity Company (MZEC), Majan Electricity Company SAOC (MJEC), Muscat Electricity Distribution Company (MEDC), Commercial & Residential projects handling a team of Engineers & Designers. Projects include Primary Substations and Grid-stations for Government Agencies like, MoD and Contractors like ONEIC, RAY International and other Commercial Projects. Responsible for preparation of Pre-bid Designs & BOQ, Quotes, Fee Proposals for government projects and private residential and commercial development.

4A Design & Engineering Pvt. Ltd., India | Manager Civil Designs



Civil & Structural Design Lead with a Team consisting of 30 Engineers, Civil Designers & Architectural Designers for design of Sub-stations. Grid Stations, projects for National Contracting Co. Ltd. with Pan Global presence in Saudi Arabia, UAE, India, Oman & South Africa.

- El Elmua NORD 60/30 kV SS and Iflissen 60/30 kV SS for Sonalgaz, Algeria. KETRACO 400 kV SS at Isinya & 220/60 kV extension at Nairobi at Kenya.
- 115/13.8 kV 4B SS at 2nd DIE for SEC, KSA. 380/115/13.8 kV SS at Dehran Home Ownership SEC, KSA. 230/69 kV SS at New Dehran Central for SEC, KSA.
- 132/33 kV Sub-station at Madinath Shinas for OETC, Oman. 132/33 kV Sub-station at Uwayanat for OETC Oman.
- Handled 220 / 33 kV GIS at Keonjhar for Toshiba India & OPTCL in India. Tender proposal jobs for NCC, HYOSUNG & GE India.

Consultant Engineer, Civil & Structural



Consultant for Civil & Structural Design of Multistoreyed Buildings, Steel Structures and High-rise Building upto 60 meters for esteemed Builders, Promoters in coordination with Architects & MEP Consultants. Recognized for offering Steel Reinforcement Details achieving a savings of upto 20%. for residential, commercial and hotel Projects. Liaison Engineer for Town & Country Planning & Metropolitan Development Authorities for procuring statutory approvals. Proof Check Consultants. Coordination with Architects and Clients. Project Lead to achieve coordination & consensus by attending client, Architect meetings, Panel Reviews. Reviewer of Analysis, Design and Drawings as Peer Review Consultants for Building upto 60 meters. Proof checker for high-rise structures.

Manager Design | Metecno India Pvt. Ltd



Lead Engineer for a team of Design Engineers, Detailer for making plans, Bill of Quantities, Estimates and submit proposals with PEEB Steel Structures, PUF Panels for walls & roof as a cost-effective solution to conventional buildings. Carried out preparation of Bids for steel structures for Tenders from private & government sectors. Project Manager for Steel Fabrication, Erection of Steel Structures and Panels for Commercial & power projects.

Mott MacDonald, Chennai, India | Principal Engineer (Civil & Structural)



Team Lead for project organization consisting of 15 Engineers & Structural Designers. Responsibilities include Project Management and guiding a team of Engineers and Draftsmen for Civil and Structural Projects from Middle-East & United Kingdom Mott MacDonald Project Offices. Civil & Structural Design Lead for a wide variety of Buildings, Metro Stations as per British Codes of practice. To handle design of Concrete & Steel Structures for Industries, Power Plants, Institutional Buildings and Metro Stations in UK, Russia, India and Middle East compliant to BS, Russian and Indian Codes. Team Lead for Conceptual design & Feasibility Studies for large residential, leisure and commercial development projects like Dilmunia Health Island, Masdar City and similar low scale project proposals.

Aswathanarayana & Eswara, Consulting Engineers & Architects, India | Senior Design Engineer



Design and Project responsibilities included carrying out Analysis & Design of RCC and Steel Structures for large industrial projects in coordination with architects and consultants. Lead and guide a team of draftsmen for detailed engineering drawings and project engineers for project execution. Responsible for a quick and improved decision-making process in an environment of handling multiple and complex projects at a time. Handled design of Paper Mills, Cement Plants, Industries and Power Projects in India.

Ramaniyam Real Estates Ltd., Chennai, India | Structural Engineer



Responsibilities include Analysis, Design, inspection and coordination with site staff for execution of multi-storeyed apartment buildings, shopping complex and IT Parks. Coordinated with external consultants and vendors for structural appraisal of IT-Parks. Guided a team of draftsmen for the preparation of structural drawings.