

# LENIN MOORTHY

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## SUMMARY

- More than 18 years of progressive experience in the Mechanical Engineer  
7 years of them as the Consultant of Project Site Mechanical Engineer of  
Works in Construction field.
- MEP Project Execution Engineering management in Type of Villas, high  
and medium rise Building, Apartment buildings, Ancillary building, Administration building, Masjid big and small, Kinder Garden School, boys  
and girls Schools, Swimming Pool, shopping mall, Clinic center, warehouse  
Guard Room. (STP) Sewage treatment plant and water treatment plant.
- Residential Building Housing Board Project to be install STP Plant of Capacity 2407 m<sup>3</sup>/Day.
- The treated Water Can be utilized for Toilet Flushing & Gardening.  
The 150 kilometers long pipeline will transmit 500,000 m<sup>3</sup>/ Day of Drinking water between Rayis in Yanbu region and Rabigh in Makkah region.
- Experience with Water/Waste Water Infrastructure design that includes  
Permitting, Grading, Storm, Drainage, Water Distribution and Sanitary Sewer Collection System.
- Monitor and Co-operate with STP technician.
- Preparation, execution, monitoring, Testing, and Commissioning of all MEP Systems like HVAC, Plumbing, Drainage, water Supply, Storm Water, fire Fighting, irrigation water supply network, external water supply network, external drainage network, external storm water, external firefighting network.
- Project Reporting, Site coordination, and Client meeting, Presentation and  
team supervision.
- Preparing technical Proposal, Material Submittal and obtaining client approval.
- Review of Design and Drawing and calculation and Conduits quality Survey.
- Material Procurement, Contract Management, Contract Agreement and Price negotiation.
- Sound Exposure in HVAC Systems and plumbing Codes.
- Sound Exposure in Plumbing pipes Selection and Size.
- Sound Exposure in Irrigation systems, water treatment plant, and Sewage  
treatment plant, centralizer  
water heater, drainage, water supply and swimming pool systems.



## CONTACT

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## SKILLS

- Infrastructure project experience
- Contract administration
- Structural analysis
- Building automation systems
- Building regulations knowledge
- Ductwork sizing
- Resourceful thinking
- Air conditioning controls mastery
- Project management
- Technical drawing interpretation
- Time management
- Plumbing proficiency
- Pump
- Water Transmission
- HVAC system installation
- Safety standards compliance
- Pressure testing
- Documentation review
- Decision making
- Leadership qualities
- Mechanical testing
- Client orientation
- Client coordination
- Fire protection understanding
- Plumbing design knowledge
- Client relationship management

- Sound exposure in HVAC equipment selection, Duct material selection and ducting size.
- Sound Exposure in Chill water system, FCU, AHU'S Air and water Cool Chiller, Cooling tower, heat exchanger package Roof top unit and Exhaust fan.
- Wide experience in the design of commercial and residential Buildings including their systems like HVAC, Drainage, Water Supply & Fire Fighting.

HVAC, Drainage, Water Supply Network and Fire Fighting.

• PLUMBING

• FIREFIGHTING

• PIPING

• WTP

• STP

• DESALINE PROJECT

• DESALINATION INSTALLATION

• PROJECT MANAGEMENT

• SITE MANAGEMENT

• PROJECT ENGINEERING

• SITE ENGINEERING

• CONSTRUCTION MANAGEMENT

INFRASTRUCTURE

INSTALLATION AND

COMMISSIONING

- Knowledge of materials and installation techniques and can specify the use of appropriate material to suit the design requirement and the budget.

- Preparing the work as per time schedule of the project.

- Deft in managing construction engineering activities with the ability to handle activities related to installation and Design Review.

- An Excellent communication analytical presentation ability and capable of conducting stakeholder meeting.

- Manage the pre-construction review meetings with contractors and suppliers. Provide required advice on MEP design issues to design consultant team arising during construction.

- Conduct a weekly meeting to review the progress to match the project time schedule.

Experienced in managing complex engineering projects from conception to

completion, ensuring timely delivery and adherence to quality standards.

Possess strong background in coordinating multidisciplinary teams, problem-solving, and optimising resources to achieve project goals.

Skilled

in navigating challenging environments while maintaining focus on innovation and continuous improvement.

- Ductwork layouts
- Mechanical ventilation
- Knowledge of building regulations
- Utility monitoring
- HVAC systems proficiency
- Construction project estimating
- Commercial awareness
- Water conservation systems
- Construction law expertise

Engineering professional with experience in managing and coordinating projects from inception to completion. Skilled in overseeing technical teams, ensuring project timelines, and maintaining compliance with regulations.

Adept at problem-solving and implementing cost-effective solutions while maintaining safety standards.

- Site inspection of the Mechanical Systems like HV

Experienced in managing complex engineering projects from conception to completion, ensuring timely delivery and adherence to quality standards. Possess strong background in coordinating multidisciplinary teams, problem-solving, and optimising resources to achieve project goals. Skilled in navigating challenging environments while maintaining focus on innovation and continuous improvement.

Innovative Project Engineer with strong background in managing complex projects from concept to completion. Skilled in coordinating cross-functional teams, optimising resources, and ensuring adherence to strict timelines and budgets. Proven track record of delivering high-quality results and driving continuous improvement initiatives. Adept at problem-solving and committed to achieving project goals efficiently.

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## EDUCATION

**Diploma of Higher Education, Diploma in Mechanical Engineering , 06/1999 - 05/2002**

**VLB JANAKI AMMAL POLYTECHNIC** - Coimbatore. Tamil nadu. India

**Bachelor of Science, Mechanical Engineering , 06/2002 - 06/2006**

**Annamalai University** - Chidambaram. Tamil nadu. India

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## EXPERIENCE

**Senior Mechanical Project Engineer , 11/2023 - Current**

**SENDAN INTERNATIONAL COMPANY LTD - Jubail , Saudi Arabia**

- Saudi Aramco's Abqaiq Plants facility is the company's biggest oil processing and crude stabilization facility. With a capacity of 7 million barrels per day, the facility is the primary oil processing site for Arabian extra light and Arabian light crude oils. The Abqaiq Plants facility handles crude pumped from the Ghawar field. It is linked to the Shaybah oilfield, through a 395-mile pipeline and to the export terminal in Yanbu through a natural gas liquid pipeline. The primary objective of this project is to provide a new gas dew point control unit (DPCU) at Abqaiq NGL Plants as

- a permanent solution to resolve liquid condensation and accumulation in
- the gas pipelines. As Gen-Con Construction Contractor major scope is to
- carry out complete Civil Works, Steel Structure Erection (Conventional and
- Conex-tech), Equipment Installation and Piping, Electrical and
- instrumentation, Painting, Insulation and Fire Proofing Works.
- 
- Coordinated project plans to execute major upgrades, successfully guiding technical teams in achieving project goals.
- Submitted all procedures and calculations to client for review and approval.
- Fostered strong relationships with clients and stakeholders through regular updates and responsive communication, enhancing client satisfaction and retention.
- Collaborated with project manager and superintendent to identify critical long-lead items and develop project procurement schedules.
- Worked with project manager to create clear and concise RFIs.
- Directed site inspections and audits to verify adherence to project specifications and quality standards, identifying and rectifying discrepancies.

#### **Mechanical Project Engineer , 08/2022 - 09/2023**

#### **Skylink Engineering and Construction Company ( Client of DOOSAN**

#### **HEAVY Construction and Industry Ltd - Yanbu, Saudi Arabia**

- Project Profile : WTP/ SALINE Project Yanbu independent water plant
- project
- Major Projects Handled
- The Yanbu Phase 4 Seawater Desalination Plant is located on the Red Sea
- coast, in the Yanbu Industrial City,
- approximately 420km north of Jeddah. The desalination plant
- will implement multistage flash (MSF) technology
- to desalinate and supply freshwater to the residents of Yanbu and the
- nearby Medina region. Saudi?? ? s state-owned Saline Water
- Conversion Corporation (SWCC) awarded a \$3bn
- engineering, procurement and construction (EPC)
- contract to a consortium including Skylink Company, Yanbu MEP
- Engineering for construction of the Yanbu
- Power and Desalination Plant Phase 4 project in June 2022.
- Construction
- on the desalination facility is expected to
- be complete by March 2024. When fully operational, the plant will be
- capable of producing 2.7GW of power, and
- 550,000m<sup>3</sup> / day or 121 million imperial gallons per day (MIGD) of
- desalinated water, which will be enough to
- meet the daily water requirements of approximately 1.8 million people.nearby Medina region. Saudi?? ? s state-owned Saline Water

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- 550,000m<sup>3</sup> / day or 121 million imperial gallons per day (MIGD) of
- desalinated water, which will be enough to
- meet the daily water requirements of approximately 1.8 million people
- Resolved customer queries and problems using effective communication and providing step-by-step solutions.
- Diffused challenging situations using conflict management techniques.
- Updated databases while complying with GDPR regulations.
- Thrived in fast-paced environment with energy and enthusiasm.
- Managed bookings to optimise team availability.
- Developed excellent working knowledge of industry trends and improvements in processes.
- Promoted safe working environment by implementing regulatory standards, policies and guidelines.
- Demonstrated consistent hard work and dedication to achieve results and improve operations.

### **Mechanical Engineer, 06/2020 - 04/2021**

#### **SDT INTERNATIONAL CONSULTANT - Umluj , Saudi Arabia**

- Sea Project is a Land and Property Development Project. The project
- is focused on Tourism and Tourist to visit the Saudi Western coast area.
- In our company project involved in 5 Island development, 16 Luxury hotels,
- 2 Inland sites, and 3100 hotels rooms like Two bed rooms types, Three
- bed rooms types , Four bed rooms types and Village Types villas . As a
- Mechanical Engineering Inspector coordinating with Project Management
- of building service projects teams and multi-disciplinary teams. Work
- with project management to develop overall schedule, manage time and
- task within schedule. To lead Contractor and Sub- Contractor teams of
- electrical, mechanical, plumbing and Pre Cast Panel Erection engineers to
- adhere to the client project requirements and scope for preparation of

- contract document for multi residential commercial Project
- Types of
- Villas like Two bedroom townhouse, Two bedroom villa, 3 bedroom villas.
- Coordinated with suppliers to source high-quality materials, negotiating contracts to achieve cost savings.
- Prepared detailed technical reports and documentation, facilitating clear communication among project stakeholders.
- Kept up-to-date knowledge of relevant regulations to verify work complied with legislation.

### **Mechanical Project Engineer , 11/2015 - 06/2020**

#### **Archen Engineering Consultant - Gizan , Saudi Arabia**

- Major Projects Handled South Border Housing Project cost of 5 Billion
- riyal,1728 units (Including 227 Apartments, 168Villa 2B, 170 Villa 2C &
- other 50 Ancillary Building's Infrastructures work inside of Compound
- (Jizan KSA) Mechanical engineer with strong interpersonal and
- communication skills with the ability to lead design teams of
- electrical, mechanical, and plumbing engineers to adhere to the client
- project
- requirements and scope for preparation of contract document for
- multi residential commercial, Two Types of Villas ,Mousqa and
- institutional (Boys and Girls school ) building construction
- administration and
- commissioning of a variety of mechanical, piping, plumbing, fire
- protection, and energy related system. Renovation work for whole
- factories building, all MEP fixtures are newly erected like firefighting
- pipe
- line works, chilled water pipe, potable water pipe ,Ducting erection
- (Supply
- and return), Coordinate with lighting, power supply, cable tray fixing,
- installation FCU (Fan Coil Unit).Zone control valve (Pressure Gauge,
- Butterfly valve, check valve), alarm check valve. Reel cabinet, landing
- valve & fire pump installation (electric, diesel, jokey pump.
- Handled customer concerns and escalated major issues to supervisor.
- Diffused challenging situations using conflict management techniques.
- Updated databases while complying with GDPR regulations.
- Optimised team training and staff development.
- Demonstrated consistent hard work and dedication to achieve results and improve operations.
- Achieved service time and quality targets.

### **Site Mechanical Engineer, 01/2010 - 05/2015**

#### **Techone Automotive Construction Industry - Chennai, India**

- NISSAN MOTORS, Daimler, Km seats, YSI, DUCKWOOD :

- Hyundai motor.
- Constructed the following areas in Hyundai motor India ltd Sriperumbudur plant Admin block and canteen and R& D Block and Workers training room and rest room and Shop floor material dispatch area and utility room with Electrical works and AC Works and all firefighting system installation, and toilet work and STP work Cooling tower and chiller unit erection and all water and air line piping work.
- I was done following activities during my project time as a Site Engineer.
- Read and understand Shop drawings and identify the materials needed for the job.
- Responsible of Waste Water Treatment plant in STP Plant as site Engineer and
- STP Capacity 100 KLD
- Ensure that all materials and supplies needed are available on site.
- Monitored construction activities, to ensure work efficiency and workmanship.
- Supervised and ensure work compliance with project quality, safety requirements. Review of Quality assurance Plan, Welding Procedure and job-related Applicable procedure.
- Zone control valve (Pressure Gauge, Butterfly valve, check valve), alarm check valve. Reel cabinet, landing valve & fire pump installation (electric, diesel, jokey pump).
- Conduct tests and inspections to verify the quality and functionality of mechanical systems
- Prepare and review technical documentation, such as drawings, specifications, and reports
- Manage subcontractors and vendors to ensure that they meet project requirements and deadlines
- Conduct site visits to assess progress and identify any issues or risks that may impact the project timeline
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- Led site inspections and mechanical equipment audits to uphold safety and efficiency standards.
- Prepared detailed reports on mechanical project progress, challenges, and milestones for senior management review.
- Coordinated installation and commissioning of mechanical systems, ensuring adherence to project specifications.
- Supervised maintenance activities for heating, ventilation, and air conditioning HVAC systems to optimise performance.
- Liaised with external contractors and consultants on mechanical engineering projects, fostering productive partnerships.

### **Mechanical Site Engineer, 03/2012 - 01/2013**

#### **BIN ARBAID GROUP. Shut down work - Doha, Qatar**

- Oil and gas Construction ( L&T, RASGAS, EMCO)
- Construction of Cooling Towers (Cross Flow & Counter Flow; Wooden & RCC
- Line Laying Project (36" M.S. Pipe line) Pipe line laying Project in Qatar Oil

- Refinery Company. Earthworks,
- Industrial Paving, Pipe Supports & Pipe Sleepers, Remedial Actions& repairing of old industrial structures.
- Managing and supervising site personnel, including subcontractors and vendors Conducting quality control inspections and ensuring adherence to quality standards
- Reviewing and approving mechanical design drawings and specifications Overseeing the installation, testing, and commissioning of mechanical systems and equipment
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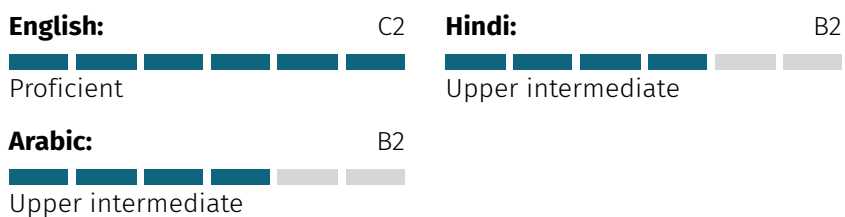
**Mechanical Project Engineer , 06/2006 - 12/2009**

**ANNAMALAI ENGINEERS ( CLIENT OF NLC LIGNITE CORP OF INDIA) - Neyveli. Tamil nadu , India**

- NLC (Contraction work for Office and Quarters for Employees and Labours
- :
- Project Profile
- Building Constructions, Construction of Single Story to Multi- story Buildings,
- Residential
- Complex, Office Building, School Building, Hyper market Building, Administration building,
- Laboratory. Project Planning, Resource forecasting & Procurement, Get prepared shop Drawings,
- Layout & Marking the foundations, Execution of Entire Building's Structures
- &finishes. On-site works as per the schedule, interprets drawings, specifications, standards, and carries out field engineering work, good knowledge in all types of plumbing drainage and firefighting drawings.
- Experienced in execution, Supervision and inspection of all site works.
- Good knowledge in all firefighting works like pipe lines, fire suppression system (inert gas system) sprinkler, fire hose reel with its cabinet, fire extinguishers...) good planning and presentation skills, execution, inspection & supervision, handling HVAC, firefighting and known plumbing installation too. On-site works as per the schedule, interprets drawings, specifications, standards, and carries out field engineering work, good knowledge in all types of plumbing drainage and firefighting drawings. Experienced in execution, Supervision and inspection of all site works. Good knowledge in all firefighting works like pipe lines, fire suppression system (inert gas system) sprinkler, fire hose reel with its cabinet, fire extinguishers...) good planning and presentation skills, execution, inspection & supervision, handling HVAC, firefighting and known plumbing installation too. Conduct design reviews and provide technical guidance to ensure project designs meet industry standards and regulations
- Collaborate with customers to understand their requirements and ensure project deliverables meet their expectations
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- Resolved customer queries and problems using effective communication and providing step-by-step solutions.
  - Updated databases while complying with GDPR regulations.
  - Identified issues, analysed information and provided solutions to problems.
  - Thrived in fast-paced environment with energy and enthusiasm.
  - Managed bookings to optimise team availability.
  - Optimised team training and staff development.
  - Developed excellent working knowledge of industry trends and improvements in processes.
  - Achieved service time and quality targets.
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## LANGUAGES



## ADDITIONAL INFORMATION

- Saudi Council Registered Engineer
- Dubai Municipality Registered