Mahalakshmi Sandeep

Global Project Engineer | Quality Assurance

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**PROFILE**

Over 7 plus years of expertise in managing sustainability initiatives and driving impactful change across corporate sustainability, global project management, capital project management, process engineering, and new product introduction, specializing across Healthcare, Manufacturing, Construction and Consumer Electronics sectors. Demonstrated ablity for problem-solving capabilities, streamlining processes across diverse workstreams and managing facility spaces. Acknowledged for leadership in project and process management, corporate training, and impactful communication. Proven expertise in leading cross-functional teams and engaging senior stakeholders effectively.

**PROFESSIONAL EXPERIENCE**

[**Utility Field Operations Engineer/Project Engineer, City of Winston Salem**](https://www.cityofws.org/)2024 – present | USA Collaborated with contractors, vendors, engineers, construction companies like Caterpillar, Highfill infrastructure engineering, KPMG and other city departments to ensure projects are completed on time and within budget.

Led statewide-level multi-agency projects involving document certification, system updates, and operational reporting with a 98% stakeholder satisfaction rate.

Engaged with over 50 residents and businesses to address utility concerns related to installation of smart meters, flow, easement and discharge demonstrating strong communication and stakeholder management skills critical for corporate responsibility projects.

Coordinated the archiving and filing processes for vital utility documents and permits, ensuring regulatory compliance and timely retrieval.

Participated in the development and implementation of sustainability and conservation programs, such as water conservation efforts and stormwater management strategies that resulted in a 30% reduction in stormwater management costs and runoff quality, enhanced community engagement and reduced water usage by 15%.

[**Global Project Engineer/Engineer Project Executive, TE Connectivity**](https://www.te.com/en/store.html?te_bu=Cor&te_type=srch&te_campaign=ggl_usa_cor-ggl-usa-srch-brand-fy22-main_sma-2209_1&elqCampaignId=117203&te_bu=Cor&te_type=srch&te_campaign=ggl_usa_cor-ggl-usa-srch-brand-fy23-main_sma-2656_2&elqCampaignId=161903&gad_source=1&gclid=CjwKCAjw_4S3BhAAEiwA_64YhsDQcx4Y0ivTUGdtyhchQJ8CUbpXHmydf8E9MxRiNtFkJ7YEINm91RoCXsgQAvD_BwE)2023 – 2024 | USA Collaborated with cross-functional teams including contractors and state agencies, achieving a 98% stakeholder satisfaction rate and ensuring timely project completion within budget constraints.

Directed space planning projects for 10 plus plants across Asia Pacific, EMEA and North Americas involving office reorganizations, expansions, and relocations for up to 200 employees. Achieved project completion within specified timeframes, improving workspace efficiency and employee satisfaction by 20%.

Spearheaded energy efficiency projects (e.g., Energy Management Systems (EMS) installations) resulting in a 10% energy cost reduction, and improved compliance with corporate sustainability goals.

Executed preventive maintenance programs through CMMS, achieving a 20% reduction in equipment downtime, extending asset lifecycle, and improving facility efficiency.

Created CAD models for key installations and equipment layouts, supporting data accuracy and precise documentation for regulatory adherence.

**Project Executive Support, KIE BACK & PETERS** 2019 – 2023 | UAE **Led HVAC optimization projects** in collaboration with the Federal Government and DELL Technologies incorporating Building Automation Systems, achieving a 12% reduction in energy consumption, highlighting a strong understanding of corporate environmental responsibility nationwide.

Implemented continuous improvement initiatives (e.g., FMEA and CAPA) that reduced defects by 25%, demonstrating a proactive approach to quality management and regulatory compliance.

Prepared performance evaluations and developed operational goals and objectives for team members, akin to responsibilities at the facility's document certification and archives Unit.

Implemented corrective action processes, reducing operational errors and enhancing workflow by 25%.

**Electrical Engineer, DOTS TECH SYSTEMS** 2016 – 2019 | UAE

Led solar panel installations across 200+ facilities, integrating with existing HVAC and fire safety systems to support corporate sustainability and reduce carbon footprint as a result acheived 35% reduction in carbon footprint nationwide.

Provided oversight for system updates and record retention procedures, ensuring compliance with state and local regulations, reducing process deviations by 30%.

**SKILLS**

**Sustainability Metrics and Reporting:** SIMAP, GHG Protocol

**Problem Solving:** 8D, Failure Mode Effect Analysis, Root Cause Analysis: 5-Whys, Fishbone (Ishikawa), Fault Tree Analysis, Lean Six Sigma

**Process and Project Management:** TrackWise, Microsoft Project, Asana, Trello, JIRA, TeamGantt, Miro, Slack

**Data Analytics:** Power BI, Tableau, Looker, Microsoft Excel, QlikView, Google sheets, Google Analytics, Minitab, JMP

**Design:** Auto CAD, Solidworks

**Documentation and Communication:** Microsoft Office 365 ( Outlook,Teams) , Adobe Acrobat, Sharepoint, Confluence, One Drive, Yammer

**Corporate Responsibility Standards::** ISO 14001, ISO 26000, SA8000, Reporting Frameworks (GRI, CDP)

**CERTIFICATIONS**

# Six Sigma Green Belt

Manipal University of Dubai

# [Fundamentals of Predictive Project Management](https://www.credly.com/badges/c2731f8a-3f5d-4a3e-8510-afe6c45a6b0a/linked_in_profile)

Project Management Institute

# Business Process Management

MIT

[**Business Analysis Foundations**](https://www.linkedin.com/learning/certificates/b7e6adae9bb3530928f602a7d7f4c51225829e0b6fa79083ebea2ce8c32387ab)International Institute of Business Analysis

# Project Management Professional

Project Management Institute

# Foundations of Project Management

Google

**EDUCATION**

# Manipal University of Dubai

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| --- | --- |
| **Bachelors of Technology: Electronics and Electrical Engineering,** | 2018 |
| [**Bachelors of Business Management, Manipal University of Dubai**](https://www.google.com/search?q=manipal%2Buniversity%2Bof%2Bdubai&sca_esv=0650fe01815f73d1&sxsrf=ADLYWIJ0xVo-Vs-pf5LZO11bBC5Cdy86rA%3A1726096297874&ei=qSPiZoSKNdiuptQPp_nigA8&gs_ssp=eJzj4tVP1zc0TKnMqTBOsywyYLRSNagwTjVNMzO2NDU1Nk9LNjE0tjKosDQ0TjM2Mk4xMzFMNDZJtvCSzk3MyyxIzFEozcssSy0qziypVMhPU0gpTUrMBADcBBlI&oq=Manipal%2BUniversity%2Bof%2BDubai&gs_lp=&sclient=gws-wiz-serp) | 2018 |
| [**Associate Degree : Telecommunication Engineering,**](https://www.google.com/search?q=manipal%2Buniversity%2Bof%2Bdubai&sca_esv=0650fe01815f73d1&sxsrf=ADLYWIJ0xVo-Vs-pf5LZO11bBC5Cdy86rA%3A1726096297874&ei=qSPiZoSKNdiuptQPp_nigA8&gs_ssp=eJzj4tVP1zc0TKnMqTBOsywyYLRSNagwTjVNMzO2NDU1Nk9LNjE0tjKosDQ0TjM2Mk4xMzFMNDZJtvCSzk3MyyxIzFEozcssSy0qziypVMhPU0gpTUrMBADcBBlI&oq=Manipal%2BUniversity%2Bof%2BDubai&gs_lp=&sclient=gws-wiz-serp) | 2017 |



[**Manipal University of Dubai**](https://www.google.com/search?q=manipal%2Buniversity%2Bof%2Bdubai&sca_esv=0650fe01815f73d1&sxsrf=ADLYWIJ0xVo-Vs-pf5LZO11bBC5Cdy86rA%3A1726096297874&ei=qSPiZoSKNdiuptQPp_nigA8&gs_ssp=eJzj4tVP1zc0TKnMqTBOsywyYLRSNagwTjVNMzO2NDU1Nk9LNjE0tjKosDQ0TjM2Mk4xMzFMNDZJtvCSzk3MyyxIzFEozcssSy0qziypVMhPU0gpTUrMBADcBBlI&oq=Manipal%2BUniversity%2Bof%2BDubai&gs_lp=&sclient=gws-wiz-serp)

**LEADERSHIP**

# Project Management Institute, Active Member and Volunteer Present

**Gail Borden Public Library, Active Volunteer** Present