

Holds a B. Sc. in Mechanical Engineering and has over 16 years of progressive international experience spanning mechanical commissioning, maintenance engineering, reliability management, and digital asset performance management. Currently holding a dual mandate at Siemens Energy Kft – leading OAM project execution across global power plant clients while concurrently supporting product development, pre-sales, and training for the Omnivise Asset Management platform.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 02/12/1985
Gender : Male
Residence : Currently Hungary

EDUCATION

: B. Sc. in Mechanical Engineering, Alexandria University, 2008

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access), Internet
: AutoCAD (2D & 3D)
: Automation Studio (Hydraulic Circuits)
: Microsoft Visio
: Matlab
: Primavera P6 Professional Project Management

TRAINING COURSES AND CERTIFICATIONS

: Project Management Professional Training course (PMP training), PMI (Jan. 2019).
: NDT Level II Certification.
: Reliability-Centered Maintenance (RCM), Siemens Energy – Internal certification program.
: Asset Performance Management (APM), Siemens Energy – Omnivise platform and digital strategy.
: Power Boiler Maintenance training with AC Boilers, Italy.
: Primavera P6 Professional Project Management course.

- : Management and maintenance training about combined cycle Power Plant (2+1), 1200MW including (Gas turbine and its auxiliaries, Steam Turbine and its auxiliaries, Generators and HRSG), basic and maintenance training with SIEMENS AG.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jan. 2024 till now
- Employer** : Siemens Energy Kft – Budapest, Hungary
- Job title** : Sr. Asset Performance & Reliability Engineer – OAM Project Lead
- Job Description** :
- Dual mandate: leading OAM project execution for global clients while supporting product development, pre-sales, and training within the Omnivise Asset Management OAM and Omnivise ecosystem OES.
 - OAM Project Execution & Client Delivery:
 - Lead the OAM project execution team, planning and coordinating all implementation activities to ensure high-quality, on-schedule delivery across international power plant clients.
 - Manage end-to-end project lifecycle — from requirements analysis and conceptual engineering through system configuration, customer workshops, and go-live.
 - Implement ISO 55001-compliant maintenance strategies (MTA, RCM, failure modes, KPIs) and adapt Siemens Energy asset template libraries to client-specific conditions and needs.
 - Configure online performance indicators via DCS/historian integration; engineer asset performance management calculations.
 - Evaluate statistical asset model accuracy; train ML models using historical operational data for anomaly detection and pattern recognition.
 - Perform Root Cause Analysis (RCA) to resolve recurring equipment issues and enhance system reliability for clients.
 - Product Development & Innovation:
 - Support the OAM product team in platform enhancement and development of new features within the Omnivise Asset Management system.
 - Act as subject-matter expert and innovation champion within the Omnivise Ecosystem (OES), contributing ideas to the Siemens Energy digital strategy roadmap.
 - Provide technical feedback from field implementations to inform product roadmap prioritization.
 - Pre-Sales, Bid & Commercial Support:
 - Partner with Sales and Bid teams on pre-sales engagements — presenting OAM to potential customers, reviewing technical scope, validating solution fit, and calculating project execution costs.
 - Prepare technical bid content and cost estimation inputs; assess project boundary conditions and contractual requirements.
 - Customer Training & Knowledge Transfer:
 - Design and deliver comprehensive customer training programs across all four OAM modules, ensuring client capability and driving platform adoption.
 - Conduct customer workshops on OAM functionality, asset criticality analysis, asset hierarchy, and RCM methodology.

- Stakeholder & Project Management:
 - Manage relationships with international, multi-disciplinary stakeholders; ensure clear communication and project alignment.
 - Report project progress and quality status to the Digitalization Section management; maintain schedule, quality, and customer satisfaction.

Dates : From Jul. 2023 till Oct. 2023
Employer : SIEMENS ENERGY
Project : Jazan Integrated Gasification and Power Company (JIGPC) – world's largest IGCC Complex, 3900MW (10 × SGT6-5000FD3), first IGCC in the Kingdom of Saudi Arabia
Job title : Mechanical Maintenance Team Lead (International Assignment)
Job Description :

- Formulated criticality-based maintenance plans for IGCC power blocks covering predictive, preventive, and corrective strategies.
- Prepared HRSG maintenance and inspection plans (Level I & II), strategic spare parts lists, and maintenance tools registers.
- Supported JIGPC team in root cause investigations for recurring faults in critical assets.
- Delivered hands-on training sessions: OEM guidelines, preventive maintenance tasks, recommended intervals, and on-site execution.
- Coordinated with Saudi Aramco and ACWA Power to ensure smooth maintenance task execution and commissioning completion.
- Developed maintenance checklists and procedures; collaborated with culturally diverse international teams.

Dates : From Jan. 2023 till Jan. 2024
Employer : SIEMENS ENERGY
Project : Burullus CCPP (4800MW)
Job title : Mechanical Maintenance Team Lead
Job Description :

- Led a 30+ member maintenance team; supervised Combustion Inspections (CI), Hot Gas Path Inspections (HGPI), and Medium Inspection of SST 5000.
- Developed comprehensive Level II HRSG inspection plans; supervised NDT checks and subcontractor activities with field inspections.
- Tracked and reported maintenance KPIs using Tableau, SAP Analytics, and MS Power BI; prepared yearly performance and management review reports.
- Addressed disciplinary matters; mentored newly onboarded team members; planned and organized training programs.
- Served as core team member for Siemens Energy APM global fleet rollout; evaluated unsupervised ML model accuracy for predictive maintenance.
- Contributed to the Siemens Energy Decarbonization Community, supporting carbon footprint reduction across the global O&M fleet.

Dates : From Jan. 2019 till Dec. 2022
Employer : SIEMENS ENERGY
Project : Burullus CCPP (4800MW)

Job title : Senior Mechanical Maintenance & Reliability Engineer

Job Description :

- Delivered >\$500,000 in annual cost savings through process improvements and optimized maintenance strategies.
- Conducted criticality analyses, FMEA, RBI, and RCFA to increase Mean Time Between Failures (MTBF) and reduce Mean Time To Repair (MTTR).
- Developed and managed the reliability strategy for all mechanical assets; implemented plant preventive maintenance system and inventory management.
- Assisted in EMD (Egypt Mega Deal — 3 × 4,800 MW CCPP) APM setup; developed Condition-Based Monitoring (CBM) system for critical equipment.
- Managed oil analysis program (laboratory coordination, result tracking, recommendations); oversaw strategic spare parts procurement and vendor management.
- Conducted comprehensive combustion inspections on Siemens gas turbines; diagnosed and resolved complex GT, ST, and auxiliary mechanical faults.
- Developed work scopes for contracted projects; analyzed quotes and recommended preferred vendors; conducted maintenance cost estimates.
- Prepared annual maintenance reports and contributed to Management Review reporting; delivered maintenance training for team members.

Dates : From Apr. 2017 till Dec. 2018

Employer : Egyptian Electricity Holding Company (EEHC)

Project : BURULLUS COMBINED CYCLE POWER PLANT (4800MW)

Job title : Project Engineer / Owner Representative

Job Description :

- Controlled engineering activities to ensure adherence to work standards, timelines, and quality assurance targets.
- Evaluated change order requests arising from out-of-scope work and evolving field conditions; assessed contractor qualifications and prepared RFP packages.
- Monitored equipment installation compliance with drawings, specifications, and industry standards.
- Coordinated all commissioning activities: GT first fire, HRSG hydro-test, chemical cleaning, steam blowing, oil flushing, and RO Plant tests.
- Reviewed and facilitated take-over and acceptance certificate (TOAC) packages with EPC contractors; compiled non-conformance punch lists.
- Provided regular compliance reports to support decision-making; maintained comprehensive cost and quantity records by engineering discipline.

Dates : From Oct. 2016 till Apr. 2017

Employer : SIEMENS

Job title : Management Trainee

Job Description :

- Training for maintenance management engineers with SIEMENS AG regarding Siemens Mega projects in Egypt (3x4800MW).
- Completed structured management and maintenance training for combined-cycle power plants (2+1 × 1,200 MW), covering SGT 8000H

GTs, steam turbines, generators, and HRSGs — Siemens AG, Germany.

Dates : From Jun. 2013 till Oct. 2016
Employer : West Delta Electricity Production Company (WDEPC)
Project : Abu Qir New Power Plant (2x650MW)
Job title : Mechanical Maintenance Engineer
Job Description :

- Developed and implemented predictive, preventive, and corrective maintenance strategies, minimizing downtime and reducing costs.
- Achieved 5M EUR in spare-parts cost savings through strategic procurement negotiations with main contractors.
- Coordinated and supervised installation of systems, machinery, and components to ensure compliance with specifications and standards.
- Led a 15-member maintenance team; prepared weekly reports, yearly cost estimates, and maintenance schedules.
- Implemented CMMS workflows to track work orders and monitor equipment reliability; established plant documentation and inventory systems.
- Diagnosed mechanical problems (boilers, steam turbines, auxiliaries) and determined corrective measures; generated spare parts lists for diverse equipment.
- Actively promoted and enforced safety protocols, company policies, and regulatory compliance.

Dates : From Jan. 2010 till Jun. 2013
Employer : West Delta Electricity Production Company (WDEPC)
Project : Abu Qir New Power Plant (2x650MW)
Job title : Mechanical Commissioning Engineer / Owner Representative
Job Description :

- Conducted comprehensive walkdowns of mechanical systems; compiled open points and deficiency lists; coordinated resolution with contractors and vendors.
- Supervised boiler hydrotests, chemical cleaning, steam blowing, and rotary equipment commissioning tests.
- Prepared and reviewed device test documentation; logged failures, monitored progress, and recorded defects.
- Interpreted blueprints, technical drawings, schematics, and computer-generated reports; maintained accurate project records.
- Coordinated with technical liaisons and construction teams on technical issues; applied troubleshooting to ST and boiler control solutions.
- Delegated tasks to junior engineers; monitored quality, maintained pace, and exceeded daily project milestones.

Field of experience :

- PROFESSIONAL PROFILE:
 - Demonstrated expertise in delivering complex ISO 55001 and RCM-aligned implementations for combined-cycle and IGCC power plants.
 - Deep technical background in Siemens heavy industrial equipment (SGT 8000H, SGT6-5000FD3, SST 5000, HRSGs, RO Plants) combined with strong commercial acumen in bid preparation, project cost estimation, and customer engagement.

- Recognized as an Omnivise Ecosystem (OES) innovation contributor and subject-matter expert.
- **KEY ACHIEVEMENTS:**
 - Led delivery of OAM implementations for international power plant clients as Siemens Energy OAM Project Lead in Hungary.
 - Achieved >\$500,000 in annual departmental cost savings through systematic reliability process improvements.
 - Secured 5M EUR in spare-parts cost reductions through strategic procurement negotiations.
 - Formulated end-to-end maintenance program for world's largest IGCC complex (JIGPC, 3,900 MW — 10 × SGT6-5000FD3).
 - Core team member for Siemens Energy APM global fleet-wide rollout across Egypt and international O&M sites.
 - Delivered OAM customers training across all 4 Omnivise modules, accelerating client platform adoption.
 - Contributed to Siemens Energy Decarbonization Community, driving carbon footprint reduction initiatives globally.
- **CORE COMPETENCIES:**
 - Asset Performance Mgmt (APM).
 - Reliability-Centered Maint. (RCM).
 - Root Cause Analysis (RCA).
 - Failure Mode & Effect Analysis (FMEA).
 - Risk-Based Inspection (RBI).
 - ISO 55001 Asset Management.
 - OAM Project Execution Lead.
 - OAM Product Development Support.
 - Sales & Bid Technical Support.
 - Customer Training (4 OAM Modules).
 - Omnivise Ecosystem (OES) Innovation.
 - Predictive & Preventive Maintenance.
 - GT / ST / HRSG / RO Maintenance.
 - CMMS · SAP · Siemens OAM / BFS.
 - Data Analysis: Power BI · Tableau.
 - Project Management (PMP®).
 - Team Leadership (30+ members).
- **TECHNICAL PROFILE:**
 - Plant Equipment: Siemens SGT 8000H · SGT6-5000FD3 · SST 5000 · HRSG (all types) · RO Plant · BOP.
 - Digital Platforms: Siemens Omnivise OAM · SAP PM / BFS · MS Power BI · Tableau · SAP Analytics.
 - Engineering Tools: Primavera P6 · MS Project · AutoCAD (basic) · MS Office 365.
 - Methodologies: ISO 55001 · RCM · FMEA · RBI · RCFA · CBM · KPI Management · Lean Maintenance.
 - Standards & Codes: ASME · API · NFPA · IEC · Siemens Engineering Standards.