



Kareem Taha Abdel Fattah Selim

Site Installation Manager

I am a Self-motivated and hard working Mechanical Power Engineer who is keen to find a suitable position that aim to increase productivity, reduce waste and improve financial performance by showing my capabilities and skills. I can work as a member of a team or as individual. I have good problems- solving capabilities and analytical skills.

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📍 Dammam , Saudi Arabia

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WORK EXPERIENCE

Site Installation Manager -HABD Project

ARC/Progress Rail Services

Saudi Railways Organization (SRO)

03/2019 - Present

Progress Rail, a Caterpillar company providing a signal solutions and technologies devoted to the safety, control and enhancement of railway infrastructure, PRS create MicroStation and AutoCAD circuit plans, cutover aspect charts and scaled track profiles, perform braking analysis, and create vital and non-vital application software. WILD, ABD and FUES EPOS (Easy Pull-Out System) Hot Axle Box and Hot Wheel Detector (HBD) bearings, wheels, and brakes can be reliably measured on the track and analyzed.

Achievements/Tasks

- Civil Works (Horizontal Directional Drilling, Trenching, Manholes, Cable Pulling "Power, Signalling and FOC", HABD Measuring Sleeper).
- Signalling Equipment Installations/Inspection for Hot Axle Box Detector System (HABD), Wheel Impact/Load Detection System (WILD), Acoustic Bearing Detection System (ABD), Wheel sensor (Frauscher RSR123).
- Test and Calibration of the Signalling Equipments.
- Production of Civil, Electrical and Mechanical shop drawings, detailed design drawings and Convert As-Built drawings to final drawings using AutoCAD.
- Preparation of Technical Reports (Survey, Modification, Damage and Inventory), Request for Information (RFI), Site Acceptance Test (SAT), Work Plan, Work Permit.
- Technical support, Spare parts and customer-coordinated process.
- RAD-X alarm system (supervisory Control and Data Acquisition, SCADA).
- Responsible to ensure of using appropriate test equipment and that it is within calibration.
- Implementing the strategy for Health, Safety and Environmental compliance and Regularly review and update existing Health & Safety Procedures.
- Oversee of the project, provide technical guidance, supervise on-site workers and ensure they deliver their packages on schedule and within budget.

Site Installation Manager - Railathe/HPU System

ARC/Yellow Rail - Saudi Arabia Railways (SAR)

06/2019 - Present

An innovative and highly adaptable wheel lathe solution, developed specifically to meet the varied requirements of the Rail sector. Offering unrivalled application options from mobile field deployment, mobile site deployment, semi static depot deployment and fixed static depot deployment.

Achievements/Tasks

- Operation of Mobile Wheel Lathe System (MWLS) and Mobile wheel re-profiling services (MWRS).
- Technical and Engineering Support.
- Process management and Application Design.
- Installation Support and Training.
- Wheelset management, Metrology and Reporting.
- Design of Diesel Engine Driven Hydraulic Power Unit (HPU).
- Carrying out the modification in the drawings when necessary to suit the requirements.
- Reviewing the Technical Calculations and Documents.
- Report any Quality issues that might have a counter effect on time, cost or operational impact on the clients business in a timely manner. Initiate remedial action for contract non-conformities through the issuance of Non-Conformity Reports (NCRs) to the client and service provider.

Progress Rail
A Caterpillar Company

Dammam, Saudi Arabia

RaiLathe
a Yellow Rail brand

Dammam, Saudi Arabia

SKILLS

Microsoft Office

MS Project

Primavera P6,

Revit

Teamwork

Negotiation

Problem solving

QAQC

Risk Assessment and Management

CAD DESIGN

Value Engineering

QHSE

PERSONAL PROJECTS

Fire Fighting System & Techniques Project with Grade "Distinction". (06/2009)

EDUCATION

B.Sc. of Mechanical Power Engineering Cairo University

06/2004 - 08/2009

Cairo, Egypt

Courses

- Energy Research Center-Cairo University (Matlab Intro. 2005), HAP(2006), CCNA, MS Office/MS Project (2007), Fire Fighting System & Techniques Course (2008)
- CECE-Cairo University - Autocad, Matlab programming (2006)
- SPE-Cairo University -Life- Skills Training Program (2007)
- STP-Cairo University - Art of Business Creation (2007)



Faculty of Engineering
Cairo University

Master of Science in Mechanical Engineering

Ain Shams University

06/2012

postponed



TRAINING

Progress Rail Inspection and Information Systems GmbH, a Caterpillar company (11/2019)

Training of installation, Testing, Calibration and Inspection for Easy Pull Out System - Hot Axle and Bearing Detector (EPOS HABD), Wheel Impact/Load Detection System (WILD), Acoustic Detection Device (ADD), Remote Announcement Display (RAD-X) and Wheel sensors (Frauscher RSR123).

Progress Rail
A Caterpillar Company

WORK EXPERIENCE

Service Engineer (ARC/EMDA)

10/2019 - 11/2019

Electro Motive Diesel Arabia (EMDA) provides maintenance services, technical support, parts inventory, sales and marketing services.

Achievements/Tasks

EMD Locomotive Services and Engine Overhauls - EMD SD70MAC:

- Engine Roll Crank Procedure (BP01-081 710).
- Engine replacement (BP01-116 SD70).
- Lifting Plan Method Statement.

Power Rail Installation Manager (ARC/Bombardier) KAIA APM Project

Arabian Railway Company (ARC) Subsidiary of Mohawarean International Group (MIG)

01/2018 - 03/2019

Rail Installation

Achievements/Tasks

- Installations/Inspection of APM Power/Ground Rail System.
- Ensure deliverables meets customer requirements; applicable codes, and quality standards.
- Testing and Inspection of Grounding Switches, Gap Contactors, Stingers, Festoon, Power/ Ground Rails, DC Switch Boards, Blue Light Stations, Emergency Power off, ATC Equipments, LV Power Distribution Equipments, UPS Equipments, CCTV, Noise Microphones, Admin Telephones, PA Speakers,...
- Develop and update of Quality Management System documents (procedures, work instructions, forms, flowcharts) for power rail system (ITP's).
- Resolve installation, field technical issues and maintain NCR found at site and liaise with Engineering team to propose action plan.
- Provide action plan to rectify any anomalies found at site and Monitor KPIs and facility quality goals.
- Assure sites are properly stocked with calibrated installation and test tools.
- Preparation of Technical Reports (Survey, Modification, Damage and Inventory), Request for Information (RFI), Site Acceptance Test (SAT), Work Permit.
- Understand and resolve Site problems as well as provide technical support by answering Non-Conformity Reports (NCRs) raised by Quality agents.
- Attend and contribute in weekly and monthly Management/Safety meetings.

APM Installation Engineer (ID No.5200069) - KAIA Project MRS-SES/Bombardier

01/2014 - 12/2017

APM Installation

Achievements/Tasks

- Installations of APM Power/Ground Rail System.
- Installation of Rail Switches, Signal Light, Wayside Signal/Telecom Equipment's.
- Design/Installation of Cable Containment Systems, Frames and Conduits .
- Work with Design team for the evolution of drawings (ie. Red-lines, modification sheets and transmittal) until handover.
- Production of shop drawings and detailed design drawings.
- Prepare installation method statement and follow up with submissions and clients comments.
- Generates engineering reports and documentation.
- Ensure all activities comply with Company OH&S policies and procedures.
- PTW Receiver for Cold/Hot Work permits (PTW ID.1000001231).



Nairyah, Saudi Arabia



الشركة العربية للقطارات
ARABIAN RAILWAY COMPANY



Jeddah-KSA



الشركة السعودية لأنظمة الإلكترونيات
SBU ELECTRONIC SYSTEMS CO



شركة مرس للخدمات الهندسية
MOHAWAREAN RAILWAY SERVICES CO



Jeddah-KSA

TRAINING

PDS (Level I, Level II)- Bombardier Site Office (07/2018 - 10/2018)



Overview of the electrical engineering fundamentals and equipment used in the power system of APM System that covering the engineering principles, design issues, standards and the major components used in APM System. Discussions are included on the Primary Sources, Rectifiers, Resonance Grounding System, Disconnect Switches, DC Chargers, Distribution Boards, Grounding Swithes, Gap Contactors, Stingers, Festoon, Power/Ground Rails, DC Switch Boards, Blue Light Stations, Emergency Power off, DC Traction Power Switchgear, Traction Power Interlocks, PLC Interlocks, Station Doors, Automatic Train Control Systems (ATC), UPS, Track Power Segments, Working Zones, LOTO, Personal Track Safety (PTS).

Personal Track Safety (PTS) (SRO-DB) (03/2019 - Present)



Understanding the relevant parts of the Rule Book, the Track Safety Handbook and the relevant aspects of the Sentinel Scheme and following relevant instructions when on or near the railway line, following the Safe System of Work.

Person In Charge of Possession/Work - PICOP/PICOW (SRO-DB) (03/2019 - Present)



Understanding the Possessions Management Manuals that describe the processes trains to formally approve access to the trains network for maintenance and capital works, the planning and scheduling of the scope of works and the management of the track possession and associated works on the day of the possession.

Quality Management System/Internal Quality Auditing (ISO 9001-2008) License No. 31718 (01/2012 - 01/2012)



Monitoring the system's performance and allowing to assess the organization's quality management in detail to improve the way business operates to fulfils its potential and gives the maximum benefit by inspection of a process and quality system to ensure compliance to requirements such as auditing documents, risk, performance and following up on completed corrective actions.

Johnson Controls Company (York) - Summer Training (07/2008 - 08/2008)



Air-conditioning and refrigeration maintenance and Operation Training in Cairo

Magawish Petroleum Company (Magapetco) - Summer Training (07/2007 - 08/2007)



Develop schedules for major equipment, program installations, upgrades, conversions and coordinate details with in-house support teams with analyzing the applications, workflow and operations problems by reviewing existing operations within area of assignments.

Geisum Oil Company - Summer Training (07/2006 - 08/2006)

Review existing operations within area of assignment, recommend and develop solutions to problems and deficiencies by suggest revisions to standards and procedures as necessary and supporting for all mapping, and modeling activities in Resources.

Kuwait & Arab Countries Company-Volvo- Automobile Mechanical engineer-Summer Training (06/2006 - 07/2006)



Provision of technical support to clients and commercial teams by preparation of monthly performance summary for technical and management reports.

Metallurgical Industries Holding Co (MIH) (07/2005 - 08/2005)



Machinery maintenance and reporting.

WORK EXPERIENCE

Site Installation Engineer (A-SMGCS)

Saudi Electronic Systems Company (SES)/SAAB Sensis

09/2015 - 12/2015

Site Survey/Radar system

Achievements/Tasks

- Surface Movement Radar (SMR) Towers, Surface Movement Guidance & Control Systems (A-SMGCS) – King Abdul Aziz International Airport (KAIA).
- Remote Unit (RU Model 6) and Reference Transmitter (RX) Installation.
- Site Survey and Installation of A-SMGCS Antenna (Terma, Omni, Sector) - Center and Corner Base Station.



Jeddah-KSA

Site Installation Engineer (ID No.IND00621)

Mohawarean Railway Services (MRS)/Indra

11/2015 - 10/2018

Electrical/Mechanical Installation

Achievements/Tasks

- Support for Electrical/Mechanical installation works within 27 trackside buildings of the Haramain High Speed Railway Project (HHR).
- Site Installation and Technical Supervision of BTS, GSM-R Shelter, Energy Buildings, Feeder Station, Paralleling Post, Sectioning Post, Maintenance Base 2 in Area 4 of the Haramain High Speed Rail Project (HHR).
- Installation and Testing of Local Fire Panel Alarm (LFPA), Smoke/Heat/Beam Detectors, Manual Release/Alarm, Fire Sounders, PA Speakers, Intrusion Control Panel (ICP), Access Control, Card Reader, Intruder Motion Detection, Magnetic Contact, Security Sounder, Access Control Camera (CCTV), Master Clock, Power Supply, Communication Racks, Security Racks and Server Racks.
- Ensure all activities comply with Company OH&S policies and procedures.
- Preparation of Site Technical Inspection (ITP) and As-Built Drawing.
- Develops and maintains technical project documentation high/low level design documentation, method of procedure, test plans, configuration templates.
- Convert As-Built drawings to final drawings using AutoCAD.



Rabigh/Jeddah - KSA

Design/Installation Manager

Electrical Works Est. For Contracting (EWE)

01/2013 - 12/2013

Telecommunication and Mechanical Installation/Inspection

Achievements/Tasks

- Installation/Inspection of Fiber Optic Sites, Switchgear Equipment Shelters for Alcatel-Lucent/Zain - Scenco Power Substations.
- Monitor and improve of QMS processes. Identify Six Sigma projects for business Improvements and comply with Quality, Health, Safety, Environment (QHSE) policies and procedures.
- Plan/Perform Internal audit and Develop, update of Quality Management System documents (procedures, work instructions, forms, flowcharts).
- Ensure delivery schedules, quantity and quality criteria are met and submit reports on completed work by contractors and vendors.
- Support engineering change request and Ensure work safe environment.
- Manage the Business Performance team, overseeing team objectives and the delivery of business performance solutions.
- Assist in the coordination of strategic and operational activities within the organisation including project support, coordination, collation of information, reporting and data analysis.
- Support the project to provide efficient systems, accurate reporting structures and timely advice.
- Provide support and assistance to the project in the ongoing reporting and development of network reporting, key performance indicator and operational reporting requirements.
- Organize, schedule and distribute work of different work orders in the project.



CONFERENCES & COURSES

Tips to Enhance your On-Site Power Safety Awareness (06/2020)

ON24 - Caterpillar Switchgear (CAT)



- Common causes for concern relating to safe operating practices with an on-site power supply and valuable tips for boosting on site power safety.

Heartsaver® First Aid CPR AED Course (03/2019 - 03/2021)

American Heart Association



Permit to Work (PTW)- PTW ID.1000001231 (02/2014 - 03/2019)

SBG-KAIA Project

- Integrating safe construction systems, including Risk Assessment and Isolation Planning which Integrated and enable the safety systems As Low As Reasonably Practicable (ALARP) reduction of unsafe activities in non-trivial work environments and essential adherence to achieve Process Safety Management.



Lean Six Sigma White/Yellow Belt (05/2017 - 06/2017)

Udemy Online Courses

- Understanding Six Sigma principles, Six Sigma tools and realistic Lean Six Sigma Yellow Belt projects by enhanced understanding of DMAIC methodology, including financial benefits of Six Sigma, and the impact of Six Sigma on an organization



Risk Assessment and Management for Engineer (INDE 046-RMP) (05/2016 - 06/2016)

The American University in Cairo (AUC)/Engineering and Science Services (ESS)

- The risk assessment management process will maintain a basic level of competence in all areas of professional project management, which comprises quantitative, empirical, qualitative and normative analysis.



Occupational Safety and Health Advanced Diploma (05/2016)

International Association of Safety Professionals (IASP)

- Credential ID:527745



Professional Development Program - 36H Occupational Safety and Health Supervisor (03/2016)

OSHAcademy Safety and Health Training

- Credential ID:73640



Occupational Safety and Health Administration - 30H Construction Safety and Health (02/2016)

OSHAcademy Safety and Health Training

- Credential ID:71920



Fire Warden Training- Site Safety Training (10/2015)

SBG-KAIA Project

- Ensuring that fire safety measures and evacuation procedures are in place and effective by understanding of fire and familiarise with fire hazards and fire safety arrangements, and detail what emergency evacuation procedures should entail.



Internal Quality Auditing (ISO 9001-2008) (01/2012)

DAS Academy - International Organization for Standardization (ISO)

- Credential ID:31718



WORK EXPERIENCE

Measurement & Verification Site Engineer Electrical Works Est. for Contracting (EWE)

12/2011 - 12/2012

Telecommunication and Mechanical Installation/Inspection

Achievements/Tasks

- Installation and supply of Mobile Substation Shelters for Scco via Siemens and ABB.
- Installation and supply of GSM Shelters in accordance with (STC, Mobily, Zain) Standards.
- Installation and supply of EATON UPS Backup Power and Monitoring System.
- Designing Telecommunication Shelters for Zain/Alcatel-Lucent Fiber Optic Projects and Preliminary Civil Design (PCD).
- Convert As-Built drawings to final drawings using Engineering software's like AutoCAD, Revit and Solidworks.
- Review technical drawings, specifications of electrical systems, to ensure that installation and operations conform to standards and customer requirements.
- Compile data and make reports regarding current and potential upcoming projects.
- Co-ordinating with regional vendors for sourcing material and technical clarifications.
- Participate in design reviews, accountable till release of engineering deliverables for all Exterior equipments installations.
- Carry out all required assessments, regularly audits and ensure that all required Paperwork is properly filled in and stored audit and inspection.

Mechanical Engineer

Egyptian Company for Metro Management and Operation

11/2011 - 12/2011

Railway Training

Achievements/Tasks

- Cairo Metro - Line 3 Installations.

Maintenance/Utility Engineer Dallah Albaraka Holding Co.

10/2010 - 10/2011

ZMC/MCMC -Compressor Manufacture

Maintenance and Utility for:

- Chiller, Centrifugal Pumps Station – Johnson Controls/York.
- Air Handling/Treatment and Air Washer Unit – EGAT.
- Compressor Station, Tanks and Dryers– Atlas Copco.
- Boiler Station, Heat Exchangers and softeners – Byworth.
- Power Factor Controllers and Medium/Low Voltage and SF6 Circuit Breaker-ABB Power Station.
- Power Generators- Cummins.
- Research, development Measurement and QA/QC Laboratory Testing Instruments- Mitutoyo.
- Check that all test instruments are calibrated correctly.
- Monthly Inspection of the Mechanical, electrical and plumbing (MEP) Systems as per Preventive Schedules.
- Organize, schedule and distribute work of different work orders in the Utility department.



Cairo-Egypt



Industrial Zone A-2/10th of Ramadan City -Egypt

CONFERENCES & COURSES

Turbomachinery (06/2011)

Ain Shams University

- Types of turbomachines. Dimensional analysis and similarity: application to incompressible and compressible-flow machines. Operating points. Selection of turbomachine type and size: specific speed and specific size. Flow in pipes and system curve. Cavitation: net positive suction head, suction specific speed. Energy transfer between fluid and rotor: steady flow energy equation. Velocity triangles. Stage design parameters: work and flow coefficient. Centrifugal compressors, fans and pumps.



ORGANIZATIONS

The National Council of Examiners for Engineering and Surveying (NCEES) (12/2009)

NCEES ID: 16-881-03



World Education Services (WES) (10/2018)

ID:37544861MM



Society of Petroleum Engineering (SPE) (07/2006 - 10/2009)



Institution of Mechanical Engineers (BEIE - I MECH E) (07/2006 - 10/2009)



American Society of Mechanical Engineers (ASME) (06/2007 - 10/2009)



Egyptian Engineers Syndicate (EES) (07/2009 - Present)

Membership No.: 58/06716



Federation of Arab Engineers (FAE) (07/2009 - Present)

Membership No.: 16/12038.



Saudi Council of Engineers (SCE) (04/2011 - Present)

Membership No.: 57370.



LANGUAGES

Arabic - Native or bilingual proficiency

English - Full professional proficiency

Deutsch - Elementary proficiency

Francais - Elementary proficiency

INTEREST

Languages

Travelling

Design

WORK EXPERIENCE

Planning Engineer

THALES Group - Transportation

03/2010 - 09/2010

North-South Railway Project (NSR)

THALES

Thales/SBG Head Office- Riyadh

Achievements/Tasks

- Planning and Technical Reporting for North-South Railway Project (NSR).
- Establish and update the Detailed Project Schedule.
- Collection and aggregation of data necessary for KPIs and conduct monthly KPI compliance sessions with the audit team and contractors to evaluate portfolio performance.
- Provide management and oversight of all Service Providers operational activities and assessing the planning team responsible for monitoring, measuring, auditing and improving Contractors operational performance in the project.
- Support the Engineering Management in planning, achieving and reporting of workload, productivity, etc.
- Support the Project Managers in building and updating the project plans, maintain budgets, tracking the projects status and reporting project related data.
- Guiding the Project Core Team in the management of all planning, scheduling and progress control related aspects of the NSR project in accordance with the Planning and Scheduling Process.
- Assist and work with Project Manager and Contract Manager on the project using FIDIC Contracts.
- Attend and contribute in weekly and monthly Management/Safety meetings.

VOLUNTEER EXPERIENCE

Mechanical Engineer

Step Towards Progress (STP)

09/2007

STP-Cairo University (Art of Business Creation 2007)

Tasks/Achievements

- Support the Engineering team in achieving and scheduling of required data.



Cairo-Egypt