



THREE LINES

Business Brochure 2024



PROFILE AND CORE COMPETENCIES

- ✓ Military and Civilian RADAR project development and management
- ✓ Radar system installation, maintenance, field testing and acceptance
- ✓ Technical field support for maintenance activities (Installation, Integration Mechanical design and Testing)
- ✓ Site Survey, System Analysis and Solution Design
- ✓ A.C and DC power system engineering and design solutions
- ✓ Design Engineering– Electronics (Analog, Digital, Hi Frequency RF)
- ✓ Electronic Equipment Modifications (A/D/RF)
- ✓ Reverse Engineering of Circuit Card Assemblies and LRUs (A/D/RF)
- ✓ Troubleshooting, repair and field service (A/D/RF)
- ✓ Command and control center (System engineering and Integration)
- ✓ Telecommunications (IT Infrastructure, network optimization, Security, Software and Application Management)

ENGINEERING QUALIFICATIONS SUMMARY

Three Lines Engineering

Areas of Experience

- ✓ Performance evaluation / validation, integration, operation and maintenance of radar/surveillance systems.
- ✓ Design programs for Radar systems Reliability and Maintainability, Life Cycle Costs, Repair Level analysis.
- ✓ Perform system design, engineering, integration and testing related to radar and telecommunications technologies.

Capabilities

- ✓ Co-development and analysis on radar trigger interface signals for radar processing
- ✓ Designed radar system trigger test equipment to control HV modulator.
- ✓ Designed precise clock reference and timing circuits for radar-pulse and STC decay control.
- ✓ Radar data output format conversion and transport
- ✓ Designed and built a custom interface to monitor power supply voltages, and cooling fan operation for integration into a radar monitor and control system
- ✓ Assemble and test RF cables
- ✓ Environmental RF Frequency spectrum analysis for frequency interference on S-Band and L-Band radar systems
- ✓ Management of technical customer reporting and documentation deliverables
Schematic documenting as per IEEE Std. 315-1975 (R1993)
- ✓ CAD & Software – ADS, Orcad Capture, P-CAD, AutoCAD LT
- ✓ Site survey study for antenna mounting and placement, radar coverage and RF interference
- ✓ Radar Performance Evaluation in accordance to EUROCONTROL SUR.ETI.ST03.1000-STD-01-01 Radar Sensor Performance Analysis june 1997

ENGINEERING QUALIFICATIONS SUMMARY

Program Manager

Areas of Experience

- ✓ Project Management (scheduling, costing, manpower loading, reporting)
- ✓ Project Management experience for long and medium range radar maintenance support program
- ✓ Systems Engineering and Technical Support
- ✓ Product Development, Prototyping and Integration

Project Experience:

- ✓ Project Manager for TPS70 Radar modernization program
- ✓ Technical lead and supervisor for AN/TPS78 installation, integration, testing and acceptance
- ✓ Customer Liason that Guaranteed support throughout the programme and acted as the direct route for the rapid solution of contract issues
- ✓ Budget planner and resource manager
- ✓ Human Resource Manager
- ✓ Contract manager with advanced understanding of financial and contractual principles for local and international contracting process
- ✓ Logistics supply chain chief/logistic planner
- ✓ Documentation control officer (In charge of ITAR and Import/Export compliance)
- ✓ Maintenance management supervisor in charge of documentation and quality control.



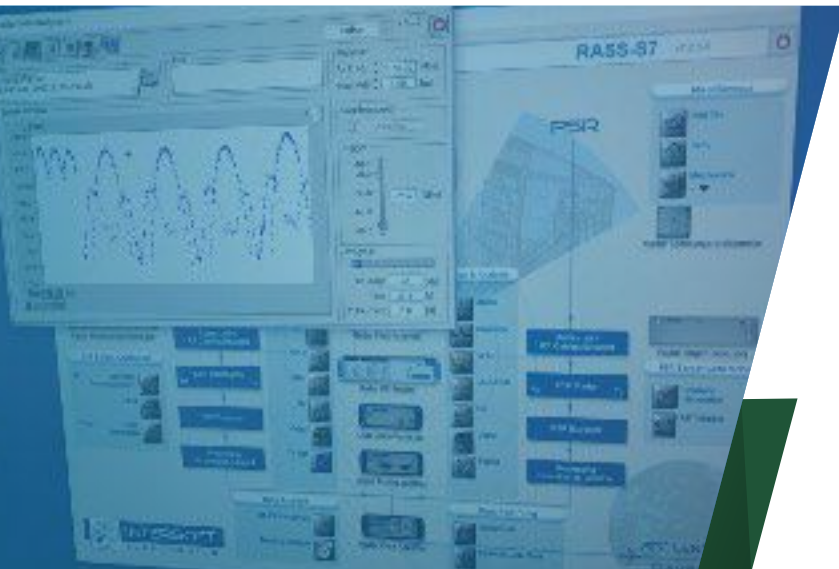
Engineering Associate

Areas of Experience

- ✓ Field and Depot level radar maintenance
- ✓ Radar equipment reverse engineering and design
- ✓ Radar system modernization/upgrade development

Project Experience:

- ✓ Radar lead engineer in charge of radar data quality analysis, operational readiness evaluation and advance operations consulting
- ✓ Project leader, interface designer and system optimizer for radar upgrade
- ✓ System architect and programmer for replacement of legacy Radar Control Unit
- ✓ Radar system modernization/upgrade development for radar upgrade
- ✓ Developer for comprehensive Air Defense Missile system simulator
- ✓ Creator of custom radar system trigger test equipment
- ✓ Radar Performance Evaluator for quality of surveillance data produced by PSR, SSR systems



ENGINEERING QUALIFICATIONS SUMMARY

Engineering Associate

Areas of Experience

- ✓ Military Long range, 3D radar systems, maintenance and installation
- ✓ Solid State Long & Medium range, 3D radar system installation and configuration
- ✓ Radar data analysis and quality control

Project Experience:

- ✓ Technical assistant for the installation, set-up, alignment and optimization of the Colombian AN/TPS-78 radar systems at 4 locations
- ✓ Radar engineer in support of modulator/processor upgrade project for TPS-70, installation, setup, configuration, training, corrective and preventive maintenance
- ✓ Radar evaluator focused on reviewing radar subsystem performance
- ✓ Radar data quality control monitor (performed height analysis reports and radar performance analysis)
- ✓ Engineering documentation lead in charge of producing specifications documents, BOM's, ECR's, technical drawings
- ✓ Technical trainer (creating custom instruction materials and provided both classroom and practical exercises for military and civilian customers)

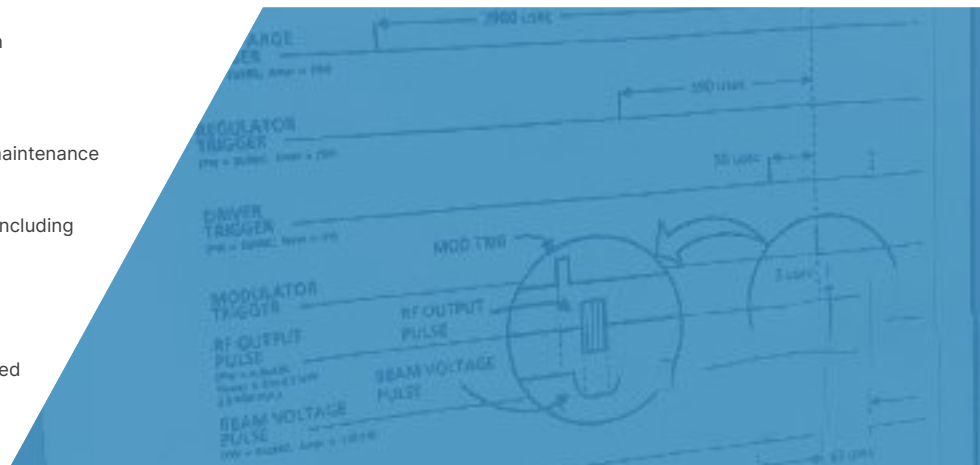
Engineering Associate

Areas of Experience

- ✓ ATC Radar systems installation and maintenance
- ✓ Upgrade project for THALES and SELEX ATC Radar
- ✓ Command and control center integration, configuration

Project Experience:

- ✓ Engineer in charge of installation, system integration maintenance and training of ATC Radar systems
- ✓ Lead engineer for Thales ATC radar upgrade program including PSR and SSR systems
- ✓ Chief engineer for Selex ATC radar removal and new system installation, optimization and acceptance
- ✓ Subject Matter Expert/Technical advisor for radar related insurance claims



Three Lines – Information

Provision of Aircraft Spare Parts & Simulator – The first licensed Saudi Company for supplying aircrafts spare parts, ground support equipment and simulators from the United States and all over the world. We are a professional Saudi team that has an experience of over 30 years.

📍 RFFA2148
Office 203, 2nd floor Building #2148,
King Abdullah Branch Road

King Abdullah Branch Road, King Faisal
Dist. Riyadh Riyadh. 13215 Saudi Arabia

® Commercial Registration No. 1010589885
VAT Registration No. 310407303200003

