Job Title: Junior Systems Design Engineer	**Date:** January 2016
Supervisor's Title: Systems Design Engineer	**FLSA:** Exempt
Clearance: DOD-Secret, CBP BI	**SCA:** N/A
Contract: All Sentrillion Operational Contracts	**Location:** Sierra Vista, AZ

RESPONSIBILITIES

The Junior Systems Design Engineer participates in all aspects of design, deployment, installation, testing, verification, and system administration for all physical security systems (Surveillance, Access Control, Intrusion Detection, and other special systems) under the direction of the Engineer in Charge.

Design and Development of Physical Security Systems
- Coordinates and conducts site surveys and technical implementation of systems
- Determination of equipment placement and equipment selection in accordance with customer requirements
- Complete necessary design, test and deployment documentation. Examples; site survey summaries, bills of materials, cost models, drawing mark-ups, Visio/cad system overviews.
- Participate and responsible for all design requirements as determined by customer, template, and company requirements
- Follow designated design process and complete necessary documents as per company process
- Communicate (written and verbally) and interact with customer during meetings and in order to arrange site surveys, verify requirements, provide ongoing status, and request assistance.

Implementation of Physical Security System Designs
- Create Installation and Subcontractor Statement of Work
- Provide information and drawing markups to complete Installation and Subcontractor drawings
- Support installation teams during installation of system
- Recommend solutions to installation and customer delivery problems
- Participate in systems installation as determined by requirements
- Direct activities concerned with layout and design of electrical circuitry, surveillance systems, access control systems, and intrusion detection systems for internal and external use to ensure conformance with Statements of work, proposals, codes and safety regulations.
- Directs modification of equipment to ensure operational performance meets specified standards and ensure technical superiority.
- System Verification and Acceptance requirements and documentation
- Conduct quality assurance, validation and verification of installations
- Follow designated deployment and installation process and complete necessary documents as per company process

Test, Evaluation, Integration of Components
- Plan, analyze, design, implement, test, and troubleshoot systems.
- Interacts with vendors for research and development efforts and installation support.
- Researches, develops, designs, and tests security components, equipment, and systems.
- Uses complex diagnostic tools to calibrate or adjust electronic equipment to specifications.
- Inspects and directs testing/evaluation of security products
- Creates test plans, documents test results, and provides test summaries

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Management
- The engineer may lead working groups and must be able to perform independently and within groups
- Communicate project status, deliverables, priorities, and contingencies.
- Provide systems engineering support, technical expertise and support direct interaction with customers
- May direct and coordinate installation, operation, maintenance, and repair of equipment and systems in field installations.
- Participates in Bid and Proposal system design, technical writing, and other assigned efforts.
- Read, interpret, and create detailed schematics, wire diagrams and site plans.
- Other duties, as assigned.

Maintenance and Systems Administration
- Installs and repairs wiring, electrical fixtures, CCTV, access control, intrusion detection, and control systems and equipment.
- Observes functioning of installed equipment or system to detect hazards and need for adjustments, relocation, or replacement.
- Replaces defective components and wiring and adjusts equipment to correct defects
- Assists in patching, imaging, and system evaluation as per customer an system requirements

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QUALIFICATIONS

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EXPERIENCE:

- Bachelor's degree in Engineering, Computer Science, Information Systems, or a related field, 4 years of experience may be substituted for the degree.
- 4 or more years of broad technical experience
- Additional technology systems/components certifications desired
- Advanced Network Infrastructure and Configuration knowledge desired
- Visio, AutoCAD, technical writing, and site design strongly desired
- Familiarity with various test instruments, Network Analyzer, Spectrum Analyzer, OTDR, etc.
- Field installation experience desired
- Supervisory experience preferred

ABILITIES REQUIRED:

- Must be able to travel for site surveys and installation support (up to 70%)
- Must be able to use Microsoft Office and Windows Platform
- Strong interpersonal skills, able to interact at all levels of the organization and with customers.
- Must have good communication skills utilizing both verbal and written communication to convey complex technical solutions in a easy to understand and actionable manner
- Strong detail-oriented skills; able to multi-task and change priorities quickly
- Ability to work without direct supervision
- Must be able to participate in system installation activities
- Must have good public/interpersonal communication skills
- Able to secure a valid U. S. passport
- Must be able to obtain and maintain related security clearances
- Ability to work designated schedule, as well as maintain attendance and punctuality.

SPECIAL PHYSICAL ABILITIES:

- Able to work at moderately high heights, up to 60 feet above the ground using bucket trucks, scissor lifts, and ladders.
- Able to work in outdoor environment exposed to varying high or low temperatures
- Must have sufficient physical agility to walk, climb, stand, crawl, and stretch on a continual basis
- Must be able to perform work utilizing small hand tools and power tools as required
- Able to lift a minimum of 60 lbs
- Able to sit at computer for 6-8 hours a day
- Able to manipulate small objects
- Able to grip without shaking
- Able to use computer, keyboard, mouse, and printers
- Able to travel utilizing designated method of travel to include air travel

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