

## SECURITY ENHANCEMENT SYSTEMS

<https://www.securityenhancementsystems.com/>



**Title: Electrical Engineer**

### About SES:

SES is a rapidly growing IoT business headquartered in Northbrook, IL with product development located in Charleston, SC. SES provides innovative best-in-class security and access control solutions for large enterprises. Our system comprises robust smart locking devices, mobile and cloud apps which utilize latest Bluetooth Low Energy (BLE) technology, advanced encryption algorithms, and secure cloud technologies. The leadership team is comprised of seasoned technology executives with decades of industry experience. SES is expanding the customer base from telecommunications industry to many other adjacent markets.

### Role:

SES is seeking an energetic, detail oriented and committed Electrical Engineer to support Engineering, Product Development, Product Test & Verification, New Product Launch and related activities.

### Key Responsibilities:

- Customer solutions, new product ideas and new product conceptual design
- Requirements capture, detailed design, simulation, component selection
- Rapid prototyping, design verification, life cycle and environmental testing
- Schematic capture, PWB layout, and Circuit Card Assembly
- Product change control and ECO process in accordance with Quality Assurance program
- Support current production, parts substitution & obsolescence
- Build & test engineering prototypes
- Documentation, test plans, final reports
- Assist software/firmware development as required
- Support certification testing (UL, NEBS) – Travel to facilities as required
- Support EMS supplier and new product production roll out
- Inspect and functionally test returned product, inspections, root-cause analysis and reporting
- Quality Assurance systems support

### Qualifications:

- Bachelor's Degree in Electrical Engineering or equivalent from an accredited university
- Strong electronics & firmware trouble shooting skills
- **Experience with an RTOS (real-time operating system)**
- Experience with microcontrollers, battery powered electronics, sensors, and datalinks
- Experience with circuit design, simulation, and layout software, Altium expertise a plus
- Solid understanding of wireless and wired communication protocols: Bluetooth, CAN, Ethernet
- Mechanical aptitude, mechanical assembly, use of hand tools
- Familiarity with 3D CAD, SolidWorks experience a plus
- Excellent writing and communication skills with strict attention to detail
- Strong time management skills, highly organized and efficient
- Proactive and seeks opportunities to learn and improve existing products and processes
- Able to take initiative and work independently as well as in team settings
- Thrive in a fast-paced, performance-oriented environment