



RADISE INDIA PRIVATE LIMITED
(CIN: U72900TG2016FTC109542)
RO: 2nd Floor, 8-2-293/82/J/B-42,
Journalist Colony, Film Nagar,
Jubilee Hills, Hyderabad,
TS, India 500033
Phone: +91-040-42221135

JOB DESCRIPTION

Job Title: **Embedded Software Engineer**

Reporting to: Director

Job Location: Hyderabad

Type: Full Time

About RADISE & Smart Structures

RADISE International, LC (RADISE) is a Florida based firm specializing in Geotechnical Engineering, Construction Materials Testing, Construction and Threshold Inspection Services and Software Services with 17 years of experience working with both the public and private sectors serving clients including government, counties and numerous private entities in both the prime and sub-consultant capacity. We have recently set up off shore office in Hyderabad, India and expanding its head count into Asia Pacific region.

RADISE recently acquired **Smart Structures** a dynamic testing company with sensor technology applications patented in 32 countries that will change the way we design, construct and maintain our world's civil infrastructure. Providing data certainty to the design and construction process and the ability to talk to our infrastructure through out its life cycle, our embedded technology provides improved safety while reducing costs by optimizing the design and construction process. Further, the technology provides the ability to provide real time life cycle monitoring improving the maintenance of critical civil infrastructure like bridges, dams and power plants, and the response time following unexpected events. For more information, you may refer to our website: <http://smart-structures.com/>

Job Description

- Candidate should be able to perform rapid prototyping and development using new tools, libraries on a variety of platforms (Windows, Raspberry Pi (Raspbian), custom (e.g. PIC Assembly Firmware, MSP430, other integrated microcontrollers), primarily in C, C++, and C# (Windows).
- Must be able to evaluate and build example source and libraries and make recommendations for further prototyping and product development.
- Must work independently and be capable of managing remote development through effective communications, as such, when directed by SSI senior developers, candidate will:
 1. Document and communicate back the effort intent to management
 2. Review current legacy code base (when applicable)
 3. Review existing code and library options
 4. Establish and document prototyping platform (target OS, tools) and necessary hardware fixturing
 5. Perform cursory integration of candidate libraries, assessing maturity, applicability
 6. Evaluate against direct development of necessary functions and capabilities
 7. Record integration process and present findings
 8. Perform more detailed development when directed by Senior developers
 9. When requested, establish an integration environment and document that environment in support of parallel review and development team integration



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10. Place all effort arte facts under configuration management in support of subsequent evaluation.

Knowledge, Skills and Abilities Required

- Data acquisition hardware integration experience
- Command and Data protocol development or integration (Serial, Wireless, Equipment control, etc.)
- Microcontroller Integration, Hardware integration
- Experience with wireless communications in an embedded environment (wireless monitoring, mesh networking)
- Product support documentation experience and the development of User's Guides

Tools:

- Visual Studio (C, C++, C#)
- MSP430 or similar microcontroller development tools (IAR, Code Composer, etc)
- Linux development tools (GNU, IDE, etc.)
- Linux libraries, third party libraries (e.g. protocol stacks, hardware interface libraries)
- Experience in embedded product development using RTOS
- Experience with data acquisition hardware (LabVIEW, AccesIO, etc.)
- Development of Web Services (both client and server)
- Distributed configuration management

Qualifications

- Bachelor's Degree in Electrical Engineering, Computer Engineering or Computer Science from a premier Institute and/or
- Master's Degree in Electrical Engineering, Computer Engineering or Computer Science from a premier

Experience:

- Having a minimum of 4 years of relevant experience in the field of Embedded Software
- Having IoT related experience is desired but not mandatory
- Any Industry, however Construction Industry exposure is a plus

Remuneration

- As per Industry standards and no constraints for the right candidate

Contact Details

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