

## Samtel Avionics Ltd.

### Job Description for Manager- Software Design

#### Summary:

**Experience:** 8+ Years

**Location:** Samtel Avionics, Gurgaon

**Education:** ME /M.Tech /ME / B.Tech. – Computer Science or Electronics & Communications/Telecommunications

**Industry Type:** R&D, Manufacturing of state-of-the-art Electronics products for railways industry.

**Role:** Design & Engineering

#### Desired Candidate Profile

#### Roles & Responsibilities: Software Design

- Requirements Analysis & validation (RTM)
- Re-usability Analysis
- Software Architecture
- SW Requirements Spec(SRS)
- SW Design
- Plan for Software Aspects of Certification (PSAC)
- Software Verification Plan (SVP)
- Software Development Plan (SDP)
- Configuration Management Plan(SCMP)
- Software Quality Assurance Plan(SQAP)
- SW test plan (STP)
- Simulation(Software)
- Code development
- Code review
- Software integration
- SW Test Report (STR)
- IV&V Activity
- Software Verification and Validation Report (SVR)
- Final SW Build Release (Product transfer)
- Must have deep knowledge and experience of Embedded System software for multiple processor families
- Should have familiarity with 8,12,32-bit Microprocessor /microcontrollers belonging to ARM, Intel, PowerPC architectures
- Experience in programming memory and IO chips as per application needs based on study of data sheets
- Hands-on experience with communication protocols like I2C, SPI, UART, Ethernet, USB etc.

- Experience with Device Driver Development for Windows, Linux, Bare Metal
- Preferred: Experience with Railways Systems such as DDU, HMI, RMS, PAPIS, PIS, TCMS , VCU

**Skills / Expertise:**

- C /C-Sharp programming skills
- Qt- cross-platform framework for developing applications and graphical user interfaces (GUIs) that can run across different operating systems.
- Windows Device driver development on any of Windows OS variant (Windows XP/ Windows Vista/ Windows7/Windows CE )
- Debugging using WinDBG
- Windows/Linux based Hardware/ Display device programming experience
- Code analysis and debugging skills
- Understanding of Windows OS concepts, Win32 APIs.
- Development of Platform (BOOT, BSP, OS) core software and drivers

**Other Attributes**

- Energetic,
- Self-driven/ initiator,
- Relationship oriented,
- English Communication Skills (Written & verbal),
- Strong analytical & Engineering knowledge,
- Effective Planner