

Function:	Hardware Developer
Project/Department:	Engineering

1. Needs

The engineer selected for this position is expected to become a key member of the engineering team focusing on electronic systems. The engineer shall team up with currently ongoing project team in the development of electronic systems for our space market clients. Specific role may vary by project assignment.

2. Duties & Responsibilities

The selected engineer is expected to:

- Perform engineering of technical solutions to fulfil requirements;
- Design, develop and test electronic hardware;
- Design, develop and debug embedded software;
- Assess severity of problems, perform fault isolation and implement solutions;
- Assist in design reviews and recommend improvements;
- Support new developments and assist in technical specifications for new contract proposals;
- Produce technical documentation on each step of the development cycle.

3. Minimal Requirements:

3.1 Academic Qualification

- Higher degree in a relevant engineering field (e.g. Electronics, Aerospace, Physics)..

3.2 Key Technical Knowledge

The following expertise are required for this position:

- Electronics circuit design for at least two of the following domains: digital, analogue, power supply;
- Circuit schematic capture using ECAD tools;
- PCB layout using ECAD tools;
- Embedded software development for microcontroller systems using C or C++.

The following expertise are added value for this position:

- Altium Designer;
- LabVIEW;
- Communication protocols and interfaces such as: CAN bus, SPI, I2C, SpaceWire, MIL STD 1553B, CAN FD, PacketWire and SPI-for-Space;
- FPGA and VHDL/Verilog, Tcl, IP core integration;
- DDR memory design;
- Scripting languages such as: Matlab, Octave, Python or other scientific programming languages;
- Source control tools (e.g. Subversion).

3.3 Practical Experience

Minimum of two years of professional experience in equivalent job role.

3.3 Languages

- English limited working proficiency required;

4. Availability

From immediate to 2 month.

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