

POSITION DESCRIPTION

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| POSITION TITLE: | Embedded Software Developer |
| REPORTS TO: | Software Development Manager |
| LOCATION: | Ngauranga, Wellington |

Basis for this role

The focus of this role will be working in a disciplined team environment to develop software for specialised radio products and subsystems.

Your duties will include, but not be limited to:

- Capture and analyse system and software requirements
- Suggest approaches and design software architectures
- Specify and implement software designs (design and coding)
- Integrate, test, and release software for use in developed products
- Participate in reviews, contribute to technical discussions, share knowledge and information
- Evaluate and recommend tools and third-party components
- Any other tasks as requested by 4RF from time to time.

Note that developers are given a large degree of responsibility and are encouraged to take 'ownership' of their work products.

Key requirements:

Candidates must have

- An appropriate tertiary qualification, preferably a degree in electronic engineering
- A minimum of 5 years of relevant embedded software development experience
- A verifiable track record for successfully delivering work products

Essential skills

- Expert knowledge of the C programming language
- Experience with programming embedded systems based on advanced microprocessors running Real-Time Operating Systems (RTOS)
- Good understanding of Internet Protocols (eg TCP/IP, ARP, Telnet, SSL, FTP, HTTP, DHCP) and experience with building applications around them in embedded systems
- Some exposure to network management protocols and frameworks (eg SNMP, MIBs)

Preferred Skills

- Some exposure to security technologies such as encryption (eg AES, DES, MD5, SHA-1) and authentication (eg CCM, RADIUS)
- Experience in using Network protocol analysers (eg Smartbits, Wireshark) and other tools that are commonly used to debug embedded systems
- General knowledge of radio technology and products (eg Transmitters, Receivers, Modems)
- Experience with one or more wireless communication protocols (eg 802.15.4, Zigbee, WiMax, 802.1a/b/g/n, etc)
- Experience with several data communication protocols (eg RS-232, HDLC, X.25, DNP3, Modbus, etc)

Personal attributes:

- Excellent communication skills
- Good interpersonal skills
- Quick to learn new technologies
- Enterprising and innovative, while recognising own limitations
- Team player but equally comfortable working independently when required