

Enterprise Control Systems Ltd

Job Description Form

Job Description

Job Title:	Embedded Firmware Engineer
Department/Location:	Engineering Dept ECS Technology Park
Reports to:	Engineering Director
Hours of work:	40 hours a week
Summary of Position:	Enterprise Control Systems Ltd is recruiting an Embedded Firmware Engineer to join their existing engineering team. The role will involve demanding firmware & hardware development and a degree of system level design and technical leadership.

Primary Responsibilities

Development of VHDL using Xilinx Vivado for ARM-based Zynq SoC devices.
Development of OFDM Radio Receivers using MATLAB/Simulink/HDL-Coder.
Development of SDR in either H/ware or S/ware.
System design and requirements capture of military and aerospace products.

Personal Specification

Qualifications & Training	Technical degree qualified.
Previous Work Experience	10 years relevant experience.
Personal Qualities & Attitude	A self-starter, self-motivated and able to produce results under pressure. Excellent verbal and written communication, interpersonal and inter-departmental skills. Willingness to take instruction and to contribute ideas in a team environment. Interacting with internal employees, clients and colleagues in a professional and timely manner

Competencies required for the job

Familiarity with Digital Communication standards such as DVB-T, LTE, WIMAX.
Highly skilled in VHDL with experience including IP Core development and integration
Experience of Xilinx Vivado (ideal) or Altera Quartus design environments
Experience of MATLAB/Simulink/HDL-Coder Tools
Experience of C/C++ coding for embedded systems
Experience of the GNU Radio toolkit (desirable).
Experience of ARM-Cortex/Linux-driver development (desirable)
Experience of designing to RTCA/DO-254 & 178 (desirable)
A good appreciation of system level design extending beyond the embedded environment such as power supply requirements, mechanical interfaces, thermal management, RF, etc.
Technical leadership skills and experience

Note: This job description is not exhaustive and will be subject to periodic review. It may be amended to meet the changing needs of the business. The post-holder will be expected to participate in this process and we would aim to reach agreement on any changes.