

Embedded Software: ZigBee Based Measurement System



Description of the internship:

The intern will be part of the team developing measurement system based on ZigBee wireless communication. FPGA PowerPC based host system running under Linux is collecting data from ZigBee network and providing it to PC over Ethernet. ARM based measurement modules are reading sensors and sending data over ZigBee to host system.

Tasks:

- Deep analyse of the documentation for ZigBee, ARM, FPGA, PowerPC, Sensors...
- Creation of the source code for ARM development board
- Managing serial communication over RS232, SPI and I²C
- Configuring ZigBee communication module
- System Integration
- Writing technical documentation

Tools

- HW Platform: ARM, FPGA
- OS: Windows/Linux
- EDA tool: Xilinx EDK, Eclipse, IAR
- SW language: Assembler, C, C++,
- Source management: SVN

Profile: 1 Embedded SW.

Starting Date: 12st July

Duration: 3 months

CV to be sent in English with GPA (refer the title of the advertisement) to internship10@elsys-eastern.com by July 6th.