

Navacchio, 09/10/2018

Hardware design engineer for design and test of circuit boards

Reference: HE-001-10-2018

Contact: jobs@echoes-tech.it

Location: Echoes s.r.l., Via Mario Giuntini, 63 - 56023 Navacchio, Pisa (Italy)

Job details:

We are looking for a Hardware design Engineer to assist our team in the design, integration and testing of circuit boards for advanced radar systems, from concept to prototyping and manufacture. In particular:

- Participate in design flow of mixed-signal and digital circuitry such as op-amps circuitry, active and passive filters, clocking circuitry, device communication interfaces, switching power supplies, ADC/DAC and microcontroller circuits.
- Design electrical schematics
- Perform multi-layer layout/routing design and generate files and BOM for PCB fabrication and assembly
- Assemble printed circuit board with through-hole and SMD components
- Performs troubleshooting and fault isolation activities on circuits
- Support the assembling of radar prototypes in the lab (assemble cable harnesses, test fixtures)
- Perform lab measurements and debugging of radar prototypes
- Perform functional testing and validation of the radar sensors
- Interface with external fabricators or vendors
- Write technical documentation

Required skills and qualification:

- Minimum BS in Electrical Engineering or Computer Engineering, MS preferred
- Experience in design, assembling and test of printed circuit boards for analog and digital electronics
- Experience using schematic capture and PCB layout CAD tools
- Capability of soldering and rework electronics and assemblies
- Capability of handling test HW (power supply, wiring, multimeter)

Desired skills:

- Lab experience using measurement equipment such as oscilloscope, spectrum analyser, network analyser, frequency synthesiser
- Knowledge of certification process
- Experience in design for EMI/EMC and knowledge of mitigation techniques
- Experience with mechanical CAD tools

Duration: The employment has a standard duration of one year with possibility of extension. The starting date will be agreed with the candidate, early starting date is preferred.

ECHOES s.r.l. is an Italian Small-Medium Enterprise born in July 2015 and it is mainly involved in the design, development and commercialization of low emission, small size and low energy consumption radar systems.

Echoes carries out its activity in the field of radar, remote sensing, telecommunications and signal processing. Its mission is to promote technological innovation starting from advanced research and to transfer this innovation to the international markets. The solutions proposed by Echoes are targeted at customers interested in high-resolution surveillance of areas, through the use of sensors with low environmental impact in all weather conditions and visibility.