

Employment Opportunity for an Electrical Engineer

Tyvak International S.R.L. is seeking new members to join their hardware development team. Tyvak focuses exclusively on developing components and subsystems into highly-integrated and custom nano-satellite vehicles. The Team's skillset ranges from architecture, design, build, and test of major mechanical, electrical, and software subsystems integrated into small spacecraft.

Job Functions and Responsibilities

As an electrical engineer, the candidate will join a collaborative team to develop innovative nano-satellite vehicle solutions for multiple projects. The individual will be responsible for hardware development during all phases of a development cycle, including requirements, design, implementation, test, integration, and documentation in a fast-paced environment. Specific tasks will include:

- Working in a small team environment closely with software, mechanical and system engineers to develop optimal solutions to complex problems
- Participating in hardware requirements generation, design, implementation, and testing discussion with multiple team members
- Working schematic design and layout of Printed Circuit Board (PCB) for primarily digital systems with distributed power regulation
- Work with board houses to coordinate fabrication and assembly of new designs
- Develop assembly procedures, test plans, and fabrication documentation
- Support system level integration of multiple hardware designs while working with software developers for debug, test, and requirements verification
- Participating in team discussions involving vehicle architecture and design for ongoing and future projects

Qualifications and Skills

- BS or MS in CPE, EE or equivalent degree required
- Experience using standard electronics equipment required: oscilloscope, power supply, multimeter, logic analyzer
- Experience working with flight hardware in a controlled environment (cleanliness and ESD)
- Ability to work methodically in a lab environment to maintain cleanliness and organization
- Experience soldering for debug and board modifications as needed
- Experience with modern satellite avionics design a positive
- Methodical digital and power system debug skills
- Ability to document complex mixed signal design architectures for review
- Experience with electronics CAD software (Cadence Schematic Capture and PCB Editor preferred)
- Comfortable working within a Linux command line environment
- Knowledgeable with common physical layer protocols (I2C, SPI, UART, USB, Ethernet)
- Understanding of best practices to reduce EMI in PCB design
- Meticulous design documentation, and attention to detail
- Good communication with team members, and ability to provide and receive constructive criticism

Proficient use of written and oral English language is mandatory

The main company office is located in **Torino, Italy**. Salary and benefits are market competitive. Position expected to be filled as soon as possible.

Please respond to HR@tyvak.eu and visit <http://tyvak.eu> for more company information.

Thank you.

