



## **Job Description**

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Job Title: **Senior Hardware Engineer**

Reports to: VP of R&D

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### **Purpose of the position:**

The Senior Hardware Engineer will be responsible for designing control systems for our product line of highly automated fiber processing equipment. He/She will be part of the System engineering team at Vytran with responsibility of designing and fabricating mixed signals PCBs and systems.

He/She should be self-driven and be an effective team player. The successful candidate will work with other hardware, software, mechanical engineers and application engineering to develop new automated systems to process fibers and fiber optics components.

### **Major duties and responsibilities:**

- Digital circuit design including FPGAs and uProcessors
- Analog circuit design including motor controllers, LED drivers, temperature controllers and position sensors
- Design, fabricate and test prototype mixed signal PCBs.
- Test and debug analog and digital control systems.
- Support production engineering and troubleshooting.
- Help on cost reduction activities, PCB re-spins and new components introduction
- Setup and maintain lab for prototyping, testing and debugging PCBs

### **Skills Required**

- BS or Masters Degree in Electrical Engineering.

- Minimum 5 years experience in PCB and system design.
- Required experience with PADS Logic and Layout PCB design tools.
- Experience in testing and debugging mixed signal control systems.
- Experience in analog circuit design, motor control, LED drive, position sensors and heater control circuits.
- Experience in micro processor board design.
- Familiarity with USB, CAN, I2C and Ethernet hardware interfaces
- Experience design analog/digital control loops.
- Familiarity with CCD and CMOS cameras.
- Familiarity with Rohs, UL and EC compliance.
- Excellent communication, documentation, teamwork and leadership skills.
- Must be self-disciplined, highly productive and work effectively in a small team.
- Ability to "think out of the box" and express creative thinking and innovative ideas.
- Positive, enthusiastic, focused, polished and genuine in all internal and external correspondence & interactions.

**Primary Measurables:**

- 1. PCB and electronic systems design.*
- 2. Hardware test and debugging*
- 3. Electronic components selections.*
- 4. Manufacturing support.*
- 5. Cost reduction and reliability.*