



Job Description

Job Title:	Electrical Engineer		
Department/Group:	Hardware Engineering		
Position Summary <i>(Brief summary of position with highlights of key duties and responsibilities)</i>			
As a member of the Hardware Engineering Team, the position is responsible for providing design and technical expertise in area of assigned development activities.			
Authorities <i>(List of decisions and approval authorities for this role)</i>			
<ul style="list-style-type: none"> - Support internal and/or external design activities to support development of new technologies and complete functional systems including manufacturing processes. - Prepare schematics, simulations, prototypes, PCB layouts, specifications, bills of materials, assembly drawings, and other documents as required to manufacture or support product. - Develop, implement characterization and/or design verification strategies for existing and new designs. - Prepare and/or review design change requests including V&V activities supporting design changes. - Perform analysis of designs for risk, hazard, test, assembly, manufacturability, etc. - Contribute to the IP landscape via invention disclosures, disclosure expansion, and patent filings. - Support Manufacturing and root cause analysis of product failures as required. - Adhere to Lungpacer's QMS including design control policies to ensure product quality. - Perform technical writing and develop/deliver presentations as required. 			
Qualifications and Experience <i>(Required qualifications and experience for this position)</i>			
<ul style="list-style-type: none"> - Bachelor's in Electrical Engineering or related field. - 3+ years of related experience OR Master's degree in Engineering and 1+ years related experience. - Demonstrated experience in both analog and digital electronic design/development that includes use of microcontrollers. Embedded software experience a plus. - Ability to create limited SW applications (e.g., Lab View) a plus. - Ability to design and implement FPGA logic in VHDL is preferred. - Demonstrated experience with design test creation and execution. EMC / EMI compliance testing experience a plus. - Familiarization with and practical knowledge of simulation tools. - Strong knowledge of FDA Design Controls / ISO13485 / EU MDR and medical device product development is preferred. - Familiarization with IEC60601, IEC62304, and ISO14971 is preferred. - Strong knowledge and demonstrated successes in the development of complete medical systems including electronics and software is preferred. - Excellent interpersonal and communication (both oral and written) skills. 			
Supervision Exercised and Received <i>(Describe the degree of required supervision and/or supervising others and the degree of independence)</i>			
This role is expected to work independently with minimal supervision, under the direction and support of Systems Manager.			
Working Conditions <i>(Describe both typical and unusual working conditions pertinent to this role)</i>			
The incumbent will work from the corporate office located in Exton, PA.			
Signature			
Employee			
	Print Name	Signature	Date