

<i>Description</i>	
Job Title	Hardware Developer
Reports to Title	Senior Director of Engineering
General Accountability	<p>Our mission is to Profoundly change the standard of care by creating a tomorrow where clinicians can confidently ablate tissue with precision; a tomorrow where patients have access to safe and effective treatment options, so they can quickly return to their daily lives. Changing the standard of care is part of our fabric. We are a group of energetic, problem-solvers focused on innovation, and looking to change the world. If you want to make a Profound impact with your career, here is your chance.</p> <p>The Hardware Developer is responsible for producing electrical and electronic designs, test and design specifications to follow the Company's Quality System and to test and document the electrical designs. They act as the subject matter expert on all electrical issues encountered in manufacturing or in the field. They are responsible for sustaining and upgrading electrical design. They are also responsible for safety and EMC certification of all electrical aspects of the Company's medical devices.</p>
Duties and Responsibilities	<ul style="list-style-type: none"> ▪ Participate in the generation of system requirements and specifications ▪ Carry out electrical engineering design activities including: design, debug, modifications and verification of electrical components of the company's products ▪ Develop and document circuit schematics and create the BOM for printed circuit board assemblies ▪ Develop manufacturing and test instructions ▪ Support the layout of as well as DFM and DFT of printed circuit boards ▪ Develop or support designs incorporating FPGAs and develop or update VHDL code in FPGA designs ▪ Participate in or lead design reviews by providing expertise on hardware design ▪ Transfer designs to in-house manufacturing or to contract manufacturers and act as liaison with contract manufacturer for all design issues ▪ Carry out all design work in accordance with the Profound Medical's Design Control Procedure ▪ Ensure the device's electrical safety and participate in risk management activities ▪ Work with certification labs to test and certify the products to applicable safety and EMC standards ▪ Ensure compliance with environmental regulations (RoHS) ▪ Lead hardware improvement projects as required by the business ▪ Support manufacturing activities as needed

	<ul style="list-style-type: none"> ▪ Investigate product complaints, perform root cause analysis of failures, and propose remediation in a timely fashion
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Competencies	
Education	University degree in Electrical Engineering
Certifications	N/A
Key Attributes (experience, skills and technical knowledge)	<ul style="list-style-type: none"> ▪ Sound knowledge of electronics engineering design principles for analog, digital and RF mixed signal designs ▪ Electrical/RF engineering for MRI compatible electrical devices is an asset ▪ Familiarity with IEC 60601 family of standards ▪ Design and testing for EMC ▪ Experience working with FPGAs and writing VHDL code ▪ Demonstrated ability to design products in a timely fashion with high quality ▪ Logical thinking with creative problem-solving ability ▪ Excellent written and verbal technical communications skills ▪ Detail-orientated, highly motivated, patient and diligent ▪ Able to work well in teams and independently