

Title: Power-Electronics HW Designer**Qualification Level: cat. Employee**

In the context of Electronics Research and Development Dept., following the drafting of the requirements of product marketing, he/she shall draw up the technical specifications and carries out strategic projects concerning power electronic applications for Low Voltage Industrial Circuit Breakers.

He/She realizes the design of architecture and technical details, making the circuit simulation and the development of electronic project, which mainly requires knowledge of both power electronics (IGBT, IGCT, GTO, Thyristor, SCR, diode, voltage suppressor) and analog, digital and low power electronics.

He/She cares the design optimization by identification of technical, architectural and circuitry solutions, exploiting the highest integration with the rest of system (mechanical part, sensors and implementation) and collaborating with the Company departments involved in the Strategic Product Development Process (Corporate R&D, Product Management, Engineering, Quality etc.).

He/She runs the prototype and project development, implementing the executive drawings, the all project documentation (from pre-feasibility studies, to detail design documents which the test plan or whatever other required) and the required product documentation.

He/She carries out preliminary tests for design pre-validation, analyzing the quality and reliability of the prototype at the theoretical level as well; he/she supports the Test Lab during all the testing phases, evaluates synthesis of reports of Test and Quality Laboratories and expresses its definitive opinion on validation of final product.

He/She draws up the technical documentation required for production of the electronic product and carries out activities to support and maintain the product when requested.

He/She needs to have an Electronic Engineering Master Degree and excellent communication skills and proficiency in written and verbal Italian and English. Design experience in HW, particularly in power electronics solutions design in industrial applications, the knowledge of the relevant EMC product standards, competence in thermal management complete the profile.