



Innovative Electronics For You

M. B. Control & Systems Pvt. Ltd.

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M.B. Control & Systems Pvt. Ltd, is an ISO-9002 company. Since our inception in 1983, we have been committed to provide innovative electronic systems and equipment for control and monitoring of industrial processes. We design, manufacture, install and commission industrial electronics systems on turnkey basis.

Our system solutions are suitable for Energy management systems, Weather Monitoring Solutions, Telemetry Systems, Remote Data Collection System, Remote Meter Reading Solutions, RTU Control Panels and Systems, SCADA systems and Sub-Station Automation Systems. Required energy reports are provided as part of the system.

Our team of experts is available to dispense expert technical support and provide technical solutions to questions ranging from generic to complex. We consider the excellence of products and service as a key to gaining customer loyalty and satisfaction. We have pan India presence via dealers and distribution network.

All the products we offer can be viewed on our website www.mbcontrol.com. We have clients such as in power generation (wind, solar, hydro etc.), OEM, Transmission, IPP, CPP, Heavy Industries etc.

Achieving your potential - build an exciting career

Discover the opportunity to join a dynamic, and responsible company that fosters the development of all its people and communities around the world. Every day, we challenge employees to achieve more and experience exciting careers.

JOB PROFILE:

Embedded Power Electronics Engineer

We are seeking methodical and detail-oriented power electronics engineer for the design and development of industrial power systems.

Roles and Responsibilities:

- Design and testing of industrial power electronics systems – eg. Solar battery chargers, solar pump controllers, battery monitoring systems etc. using power devices, microcontrollers, encompassing both hardware and software integration.
- Design systems using MPPT, PMSM, BMS, PID control, SPI, I2C, UART, RS485, SDI12, Ethernet ports, wireless communications and modems.
- Create modular design with proper thermal management.
- Proficiency in designing with MOSFETs, IGBTs, GaN/SiC FETs, Gate Drivers,.
- In-depth understanding of various microcontrollers and their programming languages, allowing seamless integration with firmware.
- Proven track record of conducting thorough testing and validation of the systems to ensure performance and functionality.
- System schematic design, multilayer PCB layout design and testing using available design tools.
- Knowledge of power systems design with required surge protection.
- Manage BOM and product life cycle.

- Create required documents.
- Understanding of quality standards and regulatory requirements related to embedded hardware design.
- Generate and execute test procedures to verify product performance against requirements

Qualifications / Skills:

- Expertise in design, testing and debugging electronic embedded systems.
- Proficiency in Buck, Boost, Buck-Boost, SEPIC, Flyback, Full-Bridge designs.
- Embedded systems communication protocols.
- Knowledge of EMI/ EMC and surge protection.
- Knowledge of C libraries for diagnostic and testing.
- Three years' experience in designing power electronics systems.