



Position Title: Manager - Sensor Development

Department: R&D

Reporting To: Head Engineering

Functional Area: Sensors

Role and Responsibilities:

- To define system level sensor architecture for Automotive and Non-Automotive segment
- Feasibility analysis of sensor interface and sensor design as per customer requirement and ISO26262
- Defining terminal diagram/ wiring harness diagram with relevant safety mechanism(Integrated coupler,Case, etc)
- Conducting system level DFMEA & FTA
- Capturing system level requirement receiving from customer and implementing it in-coordination with HW/SW
- Design, develop the hardware and software interfaces to integrate the system, instrumenting and troubleshooting system components for testing, analyzing test data, and recommending solutions for test failures.
- Collaborate with mechanical engineers, firmware developers, product management and manufacturing operations for Develop and support integration of electronic and electrical systems.
- working with sensor element suppliers and chose the right sensor element for different sensor application. Work with purchase team for costing of the sensor elements and other child parts.
- System level testing and validation of the product both on the test bench and the vehicle.
- Market research of different sensor technologies and applications in Automotive and non-Automotive industry and define a roadmap for Sensor products for the organization.
- Writing and delivering technical documents and briefings to various audiences.
- EMC/EMI design practices and the relevant validation testing
- Optimization of Sensor designs to meet the target BoM cost. Working with the purchase teams for BoM cost optimization.
- Project Planning and execution to meet customer and internal schedules.

Minimum Educational Qualification Required: -Bachelor of Technology (B.Tech) / (B.E) in Mechatronics,ECE, EEE**Experience Required :**12+ Years. Experience in sensor development**Skills Required:**

	Technical Skills:	Basic	Advance	Expert
	Understanding of different types of sensors applications & their control strategies. Temperature, Pressure, Speed, Hall effect based sensors, Ultrasonic sensors,			√
	Understanding of sensor interface techniques with master control units for different types of sensors. Ability to evaluate right sensor elements for different sensor applications and work with suppliers to define the solutions.			√
	Micro-controller design/algorithm used for sensor design	√		
	Circuit design & Power Electronics design for sensor design		√	
	Knowledge of Automotive electronics or Mechatronics products		√	
	System FMEA/FTA/Safety standards ISO 262262			√
	Packaging of sensor elements and circuitry. Packaging for reliability and robustness as per customer requirement. Knowledge of molding/welding/potting etc		√	
	Understanding of Sensor manufacturing processes for different types of sensors. Defining EoL Specs. Support to process team to define process flow.		√	
	Validation plan design for sensors		√	

	Behavioral Skill:	Basic	Advance	Expert
	Ability to drive multi dimensional technical teams			√
	Customer management		√	
	Precise and analytical.			√
	Ability to self organize and respect due date. Project Management skills		√	

	Other Skills	Basic	Advance	Expert
	Prior Experience of automotive Industry		√	
	Understanding of process engineering for manufacturing of sensors	√		
	Written and Oral communication skills			√

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