***Topic: ROBOTICS // Location: Coimbatore***

Education requirements 

* Under graduation or post-graduation in Robotics/Mechatronics
* Candidates from electronics background with above skill set can also apply

Skill set requirements 

* Good knowledge in embedded system design & development
* Experience in Robotics design & implementation
* Understanding of CAD and relevant tools
* Good understanding of Electrical & Electronics design
* Good knowledge and experience in Embedded C programming
* Should have the capability to adapt to any recent platforms
* Expertise in Kinematics and dynamics of drive systems
* Expertise in servo based drive systems (like stepper, BLDC, synchro/asynchro drives etc.)
* Expertise in interfacing of sensors to drive system
* Basic communication & presentation skills (English)

Essential Duties and Responsibilities 

* Needs to handle several complex tasks and responsibilities - research, designing, development, implementation, testing, debugging, modifying, etc., to meet the product requirements.
* If the existing system needs to changed, then they are responsible for interpreting the requirements and changes that are needed in the system and develop specifications
* Documentation of design and implementation
* Effective interaction with the team and maintain positive energy
* Adhere to the timelines and quality standards

***Topic: Machine learning // Location: Bangalore***

*1. Infrastructure setup for data analytics and machine learning in the cloud server. This includes setting up the necessary toolchain including all verification and validation processes of data.*

*2. Validation tool covering all the three stages namely, [1] pre-analytics validation, [2] validation during ongoing data analytics and [3] post-analytics validation. Prime objectives of validation differ subject to the stage. For example, pre-analytics validation focuses on data integrity whereas post-analytics validation focuses on the inferences drawn by the analytics algorithms.*

*3. Some work packages involving specific analytics & machine learning routines. Once we begin working with substantial amount of user data, our idea will get crystalized and we will be in a position to detail the tasks to expectation.*

*4. Analysis of low cost parking infrastructure setup for parking guidance algorithm. Deploy use cases pertaining to V2V communication between vehicles in a parking lot.*

*5. Define and develop artificial rule engines for development test suite which helps in generation of test cases and error analysis.*

*6. UI tool independent pluggable Application framework architecture*