Industry Certified

RV-Mercedes-Benz Centre for Automotive Mechatronics

Internship Modules for Engineering students

M1. Energy analysis of EVs on different driving cycles
M2. Autonomous park assist system
M3. Electric motor performance analysis in EV for different driving cycles
M4. Supplemental Restraint Systems
M5. Optimal selection of components for EV powertrain from EV simulation
M6. Keyless Entry system
M7. Review of BMS technology for EV's
M8. Adaptive Suspension system
M9. Simulation of FOC based BLDC motor
M10. Adaptive Brake Regulation (ABR)
M11. Simulation of FOC based sensorless BLDC motor
M12. Automatic Rain / Light Sensor system
M13. Implementation of BLDC motor control in ALTAIR Embed software
M14. Tire Pressure Monitoring System (TPMS)
M15. Investigation of various PWM techniques for three phase Inverter in EV Power Train
M16. Vehicle to Vehicle Communication
M17. Investigation of various Power Quality issues due to integration of EV Chargers
M18. Electronic Fuel System
M19. Design of converters for fast charging of EV's
M20. Exhaust Gas Recirculation System
M21. CANoe simulation (SLL) to model different EV driving conditions
M22. Climate Conditioning for Passenger Comfort
M23. CANoe based HLL to model motor driving
M24. Energy Management for ECOby the student starting from specifications
M25. MHLL based CAN emulator to emulate CAN communications
M26. Modeling EV drive train in MATLAB / SciLab for vrious driving modes
M27. Modeling EV drive train in MATLAB / SciLab for different types of motors
M28. Dynamic tunning of Inverter PWM as per driving feedback for optimal battery consumption
M29. Braking condition prediction for avoiding back current from motor in an EV
M30. Simulation and comparison of standard BMS algorithm for EV driving profiles
M31. Development of Motor Control Algorithm
M32. Computer Vision for Autonomous Vehicles
M33. PYTHON for Mechanical, Aerospace and Industrial Management
M34. Machine Learning for Mechanical, Aerospace and Industrial Management
M35. Model Based design for Control system using SCILab / MATLAB
M36. Model Based design for Automotive system using SCILab / MATLAB
M37. Model Based design for Mechanical system using SCILab / MATLAB
M38. Modeling of ADAS using SCILab / MATLAB
M39. Modeling of Cruise control system SCILab / MATLAB
M40. DSP for Power Engineering
M41. PYTHON based simulations of Automotive Power Electronics
M42. Machine Learning using PYTHON
M43. Modeling of Suspension Systems

RV College of Engineering®
Mysore Road, RV Vidyaniketan Post,
Bengaluru - 560059, Karnataka, India
+91-80-68188110 | www.rvce.edu.in

Scan Here

Go, change the world®

RV-Mercedes-Benz Centre for Automotive Mechatronics

Internship Modules for Engineering students

Week-1
Orientation on fundamentals of automotive Mechatronics
Hands on sessions – software skills
Week-2
Hands on sessions (hardware) Automotive aggregates
Week-3
Practical sessions on Automotive Systems with Mercedes and Ford Cars
Week-4
Discussions, report writing, digital poster and evaluation
Prerequisites: Fundamentals of mechatronics systems, sensors, actuators and associated hardware systems

For Further Information Contact:
Dr. Sridhar / Dr. Ravishankar Holla
Email ID: sridharr@rvce.edu.in
Mobile: +91-9740400717/9480111040