

Mechanical Academic Projects – 2015

(Fabrication, Production, Robotics, Thermal)

HVS-902. Design of a Direct-Driven Linear Actuator for a High-Speed Quadruped Robot, Cheetaroid-I. **(IEEE-2015)**

HVS-904. Cooperative Path Planning for Target Tracking in Urban Environments Using Unmanned Air and Ground Vehicles. **(IEEE-2015)**

HVS-654. Paralysis Prosthetic Hand.

HVS-1839. Railway Track Pedestrian Crossing between Platforms (Movable and flexible railway platform). **(IEEE-2014)**

HVS-662. Disaster Security Robot.

HVS-569. Design and Fabrication of Coconut Harvesting Robot: COCOBOT. **(IEEE-2014)**

HVS-653. Fabrication of 3 Axis CNC drilling machine with X Y Z parameters.

HVS-901. Autonomous Pose Detection and Alignment of Suction Modules of a Biped Wall-Climbing Robot. **(IEEE-2015)**

HVS-691. Development of Solar Dryer Incorporated With Evacuated Tube Collector. **(IEEE-2014)**

HVS-622. Fabrication of Steam Power Plant with 2 generators.

HVS-1819. Innovative Multi Directional Wind Turbine. **(IEEE-2014)**

HVS-604. Automatic sky Car Parking System for apartment Building.

HVS-1853. Thermoelectric Based Dual Processing Control Using Embedded Controller. **(IEEE-2014)**

HVS-1943. Solar Power Refrigerator System Using Thermoelectric Plate.

HVS-1944. Hybrid Power Generation Based Induction Heating System with Solar, Wind and Hydel

HVS-1928. Auto Metro Train to Shuttle between Stations and Station name announcement using FM radio signals. **(IEEE-2014)**

HVS-1948. Remote Controlled Movable Crane, Can Handle 20kgs With Pick And Place Operation.

HVS-1956. Button Operated Automatic Gear & Clutch Shifting.

HVS-1957. 3 Axis Gimbal for Video Stabilization.

HVS-1955. Wind Power Based Refrigerator.

HVS-1554. Shock absorber power generation Automobile Engineering

HVS-1555. Silencer based power generation in two wheeler.

HVS-1535. SCARA Robot.

HVS-1959. Motorized Screw Jack For Car Lifting.

HVS-1960. Fabrication of Electric Scooter with Self Charging Dynamom.

HVS-1962. All-Terrain Vehicle with Planet Gear Mechanism.

HVS-1963. Solar Based Air Compressor Pump For Car Bike Tire Inflate.

HVS-1966. Hybrid Power Generation Based Portable Refrigerator.

HVS-1967. Solar Powered Rapid Water Heating System Using DC Induction Heating.

HVS-1872. Air Bag Crash Sensor Development Using MEMS.

HVS-1874. Solar Based Electric Car.

HVS-1879. Design Of Nano Crane.

HVS-1949. Solar Electric Scooter - Design & Fabrication

HVS-1971. Mileage Projector for Heavy Vehicles and Low Mileage Alerting Using Ultrasonic Range Finder.

HVS-1983. Solar Based Coolants Control System With Voltage Graph On MATLAB software

HVS-1986. Solar powered Industrial induction principle based Boiler Controller With Temperature Display.

HVS-650. Fabrication of hydroelectric power generation system.

HVS-1987. Non Conventional energy based Railway Track Pedestrian Crossing between Platforms.

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Dilsukhnagar: #F-8, 1st floor, Sreemaan Rama Towers, Opp:Kalanikethan, Chaitanyapuri, Hyderabad - 62.

HVS-1992. Solar powered boiler with Resonant Converter for Induction Heating Applications

HVS-647. Regenerative breaking system.

HVS-648. Stair climbing robot.

HVS-642. Designing and development of Pedal Power Hacksaw Machine.

HVS-649. Sensor based Gear Position Identification System

HVS-641. Intelligent Autonomous four legged walking robot to operate on uneven surfaces

HVS-602. Fabrication of Electronic Hack Saw Machine.

HVS-614. Automatic rain operated wiper.

HVS-466. Robot to rescue of a child in a borehole.

HVS-632. Paddy Harvester.

HVS-636. Fabrication of solar powered Grass Cutting Machine.

HVS-639. Voice actuated hospital bed control system and Heart Beat monitoring and alerting system.

HVS-640. Automatic Intelligent Object sorter with conveyor belt arrangement for colour distinguishing and object count applications.

HVS-581. War field wireless spying Robot with live human and explosive detection having sharp shooting weapon.

HVS-616. Hybrid power generation using solar, wind and hydel and designing of high efficient inverter.

HVS-136. Development of painting robot using spray gun tool.

HVS-1521. Automatic hand break release

HVS-655. Hydel Power Generation with Over Head Tank.

HVS-656. Hybrid Power Generation using Solar, Wind and Piezo.

HVS-660. Solar Powered Home Appliances.

HVS-661. PIC Based Hybrid Power Generation.

HVS-665. Intelligent Flight that moves to user instructions.

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HVS-666. Remote monitoring of flight angles monitoring system with emergency alerting.

HVS-686. Design of Location-Aware Selective Unlocking Mechanism via RFID and GPS. (IEEE-2014)

HVS-698. Energy Efficient Atomized Bottling Plant Using Plc And SCADA With Speed Variable Conveyor Assembly. (IEEE-2014)

HVS-1855. Voice Operated Intelligent Elevator. (IEEE-2014)

HVS-644. Fabrication of tilting based steering controlling 3wheeler.

HVS-603. Fabrication of Electric Two Wheeler with Rechargeable Battery.

HVS-609. Fabrication of wind energy vehicle.

HVS-629. Quick lifting jack with gear arrangement.

HVS-606. Automatic break failure indicator and engine over heating alarm.

HVS-612. Automatic track guided vehicle with high torque motors for industrial application.

HVS-611. Emergency braking system in four wheeler.

HVS-617. Fabrication of solar irrigation System.

HVS-619. Water pumping system using Wind Power.

HVS-621. Remote controlled tilting wheel chair for physically disable.

HVS-1507. Anti theft system for bikes by wheel locking system.

HVS-1532. Chainless bicycle.

HVS-1526. Automatic sprocket side stands retrieval in two wheeler.

HVS-1513. Automatic blackboard cleaner white board cleaner.

HVS-1511. Auto roll punching machine using Geneva mechanism

HVS-1520. Automatic clutch while gear change in two wheeler.

HVS-1523. Automatic clutch controlling while breaking in two wheelers.

HVS-1533. Chair cum bed innovative mechanical development for physically challenged people.

HVS-1541. Electromagnetic clutch for two wheeler.

- HVS-1539.** Electrical power generation system using railway track.
- HVS-1543.** Geneva mechanism based wheel conveyor belt
- HVS-1545.** Hand operated clutch for handicap car
- HVS-1818.** Innovative Concept of Hybrid Vehicle. **(IEEE-2014)**
- HVS-1822.** Low Cost Robotic Hand Gloves. **(IEEE-2014)**
- HVS-1878.** Design And Implementation Of Multi-Sensor Versatile Robot.
- HVS-1880.** Intelligent Pollution Control System: Auto Ignition Cut Off For Automotives By Detecting Carbon Monoxide.
- HVS-1909.** Advanced Fire Extinguisher Robot Controlling With Android Mobile Phone.
- HVS-1946.** Automatic Dam Gate Control System with Caution Alarm Using ARM-7 Lpc-2148..
- HVS-1969.** Digital Compass Based Robot With Gun Position Fixing In A Particular Direction Based On The User Input.
- HVS-589.** FAMPER robot with Video transmission and head lamp vision.
- HVS-600.** Fabrication of Mini milling machine.
- HVS-643.** Mechanical Walker robot with 2 high torque motors.
- HVS-645.** Development of hanging train with automatic door opening system.
- HVS-578.** Intelligently navigable Robotic vehicle for Industries using compass and RFID.
- HVS-577.** Construction of flying quad rotor with video surveillance system.
- HVS-601.** Fabrication of Fully automated Drilling Machine.
- HVS-605.** SMS based vehicle ignition controlling system.
- HVS-607.** Remote controlled air craft (flying model).
- HVS-608.** Fabrication of kid's car.
- HVS-456.** Automotive and manual drilling apparatus.
- HVS-449.** Digital Compass and Magnetic Crane based Smartly Navigable Robotic Automobile for Industries
- HVS-610.** Voice controlled material handling vehicle

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- HVS-613. Fabrication of electrical steering mechanism.
- HVS-393. Solar Tracker Robot using Microcontroller
- HVS-615. Artificial intelligent based solar vehicle.
- HVS-574. Solar tracking system with automated water pump controlling.
- HVS-489. HAWK: An unmanned mini helicopter-based aerial wireless kit for localization.
- HVS-496. Robust Railway Crack Detection Scheme (RRCDS) using LED-LDR Assembly.
- HVS-618. Automatic Vegetable (or) Lemon Cutting machine.
- HVS-620. Fabrication of Remote operated weapon system.
- HVS-624. Closed loop tire pressure monitoring and controlling system using pressure sensor.
- HVS-625. MEMS Accelerometer controlled tilt sensing for Avionics applications.
- HVS-626. Speech recognition based Wheel chair with elevated features.
- HVS-627. Designing of Programmable Drilling machine for depth controlling.
- HVS-628. Sand collecting vehicle.
- HVS-630. Fabrication of bucket wheel excavator.
- HVS-631. Automatic bottle washing machine.
- HVS-633. Fabrication of vegetable slicing Machine.
- HVS-634. Automatic paint spraying pick and place Equipment.
- HVS-635. Sensor Based Automatic paint marking machine for sprocket Industries.
- HVS-637. Solar based self powered high efficient Line following robot with obstacle avoidance.
- HVS-638. Obstacle Avoidance and Manhole detection Electronic travel aid Robot for blind
- HVS-1503. 90 degree steering system with high torque dc motors.
- HVS-1531. Development of Camshaft.
- HVS-1548. Vertical axis wind Turbine
- HVS-1550. Hydraulic floor crane

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- HVS-1551. Hydraulic four wheel jack
- HVS-1553. Hydraulic metal pressing system.
- HVS-1556. Thread screw mechanism based barrel lifter.
- HVS-1559. High efficient hydraulic metal sheet cutter
- HVS-1560. Gear shifter change in two wheeler.
- HVS-1561. Solar powered Train.
- HVS-1570. Multipurpose hydraulic metal pressing and bending machine.
- HVS-1571. Multipurpose power tool - Drilling and cutting with one motor at a time.
- HVS-1573. Pedal actuated mechanical innovative tap.
- HVS-1575. Fabrication of buffing machine.
- HVS-1579. Quick lifting jack with bevel gear arrangement.
- HVS-1580. Reverse gear in two wheeler for handicapped.
- HVS-1583. Fabrication of sheet rolling machine.
- HVS-1592. Fabrication of TMT BENDING MACHINE.
- HVS-1593. Development of Two wheeler with tractor attachment.
- HVS-1594. Fabrication of zig zag lift mechanism.
- HVS-1522. Automatic sheet cutting machine
- HVS-1500. 3 axis modern trailer using servo motors.
- HVS-1501. 3 axis painting machine manual driving with high torque DC motors.
- HVS-1504. Agriculture robot controlling from the mobile phone.
- HVS-1506. Amphibious army robot with solar power.
- HVS-1510. Auto roll punching machine.
- HVS-1512. Auto slingshot crossbow with trigger mechanism.
- HVS-1517. Automatic motorized 2 wheeler side stand retrieval.
- HVS-1516. Automatic emergency braking system.

- HVS-1518. Automatic motorized vise.
- HVS-1519. Automatic motorized Window.
- HVS-1524. Automatic spiral punching machine.
- HVS-1527. Ball Kicking Mechanism.
- HVS-1528. Break failure indicator.
- HVS-1529. Brush cutter all crop cutter (12 v battery powered).
- HVS-1536. Combat robot with heavy duty motors.
- HVS-1537. Compressed air engine.
- HVS-1538. Development of double jaw vise.
- HVS-1540. Electromagnetic braking in two wheeler.
- HVS-1542. Four wheel steering _ four wheel drive.
- HVS-1544. Development of innovative grass cutting machine.
- HVS-1546. Development of rice polishing mechanism with high-speed DC motor.
- HVS-1547. Fabrication of mechanical vending machine with simple coin mechanism hack proof
- HVS-1549. Hydraulic bending machine
- HVS-1552. Hydraulic innovative load shifter.
- HVS-1557. Hexapod robot.
- HVS-1558. Hydraulic clamp or hydraulic bench vice
- HVS-1562. Development of tire changer machines.
- HVS-1563. Fabrication of Mechanical horse.
- HVS-1564. Mechanical automatic scissor JACK
- HVS-1565. Fabrication of Internal grinding for lathe
- HVS-1566. Microcontroller based drip irrigation system agricultural engineering
- HVS-1567. Mobile phone controlled gate valve agricultural engineering.
- HVS-1569. Motorized mobile crane.

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- HVS-1568.** Motor Position Control for windmill direction control.
- HVS-1572.** Omni wheel drive robot
- HVS-1574.** Pedal power operated water bore pump.
- HVS-1576.** Automatic gear shifting of four wheeler with motors.
- HVS-1577.** Fabrication of wind powered grinding machine.
- HVS-1578.** Fabrication of Power Line Inspection Robot with video surveillance (power line maintenance robot).
- HVS-1581.** Sanding machine with auto chip removal
- HVS-1582.** Shaft drive bicycle.
- HVS-1584.** Solar bicycle (battery powered bicycle) gear box.
- HVS-1585.** Solar paddy transplanter machine
- HVS-1586.** Solar seed sprayer agricultural engineering
- HVS-1587.** Fabrication of Solar wood cutter
- HVS-1588.** Development of speed breaker on time demand.
- HVS-1589.** Supercharger in two wheeler mechanical engineering
- HVS-1590.** Tank chain driven drive robot.
- HVS-1591.** Fabrication of Tennis ball cannon machine gun one of its kind.