Mechatronics Projects Topics:

Project ID	Project Title
CSIFSD0001	Self-Calibrating 4-DOF Robotic Arm Using Encoder-Based Link Error Compensation
CSIFSD0002	Force-Limited Robotic Arm for Safe Human–Robot Object Handover
CSIFSD0003	2-DOF Micro-Motion End-Effector for Precision Hole Alignment
CSIFSD0004	Compact Parallel Robotic Gripper for High-Speed Pick-and-Place
CSIFSD0005	Adaptive-Finger Robotic Gripper Using Passive Mechanical Compliance
CSIFSD0006	Low-Cost Robot Arm with Automatic Tool-Changing Mechanism
CSIFSD0007	Robot Arm with Mechanical Overload Protection at Every Joint

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CSIFSD0008	**Vision-Free Precision Assembly Robot Using Force and Limit Sensors**
CSIFSD0009	**Variable-Stiffness Robotic Wrist Using Spring Preload Adjustment**
CSIFSD0010	**Cartesian Micro-Positioning Robot for PCB Component Placement**
CSIFSD0011	**Pneumatic Soft Robotic Finger for Fragile Object Handling**
CSIFSD0012	**Three-Finger Soft Pneumatic Gripper with Variable Grip Pressure**
CSIFSD0013	**Kirigami-Based Soft Robotic Gripper**
CSIFSD0014	**Tendon-Driven Flexible Continuum Robot for Narrow-Space Inspection**
CSIFSD0015	**Soft Bending Robot with Leakage Detection Using Pressure Sensors**
CSIFSD0016	**Variable-Stiffness Soft Robotic Arm Using Mechanical Locking**
CSIFSD0017	**Soft Robot for Picking Irregular-Shaped Fruits Without Damage**
CSIFSD0018	**Silicone–Graphite Flexible Strain Sensor for Robotic Fingers**

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CSIFSD0019	**Low-Cost Artificial Muscle Actuator Using Pneumatic McKibben Muscle**
CSIFSD0020	**Compliant Soft Robotic Wrist for Human-Safe Object Manipulation**
CSIFSD0021	**Low-Cost 3-Axis Robotic Force Sensor**
CSIFSD0022	**Electronic-Skin Tactile Pad for Robotic Gripper Contact Detection**
CSIFSD0023	**Slip Detection Gripper Using Pressure and Vibration Sensors**
CSIFSD0024	**Haptic Glove with Motor-Based Finger Force Feedback**
CSIFSD0025	**Multi-Point Tactile Sensor Array for Robotic Hand**
CSIFSD0026	**Soft Electromagnetic Haptic Wristband**
CSIFSD0027	**Force-Controlled Robotic Gripper for Delicate Components**
CSIFSD0028	**Tactile-Based Object Hardness Measurement Device**
CSIFSD0029	**Wearable Vibrotactile Feedback Device for Remote Robot Control**
CSIFSD0030	**6-Axis Force/Torque Measurement Platform for Robotic Manipulation**
CSIFSD0031	**LiDAR-Based Indoor Autonomous Warehouse Robot Using**

	Classical SLAM
CSIFSD0032	**Low-Cost Differential-Drive Mapping Robot**
CSIFSD0033	**Autonomous Hospital Delivery Robot Using Predefined Floor Maps**
CSIFSD0034	**Line-and-LiDAR Hybrid Navigation Robot**
CSIFSD0035	**Multi-Zone Autonomous Material Transport Robot**
CSIFSD0036	**Shelf-Following Warehouse Robot Using Ultrasonic/LiDAR Sensors**
CSIFSD0037	**Obstacle-Avoiding Forklift Robot with Load Presence Sensor**
CSIFSD0038	**Autonomous Indoor Inspection Rover Using Odometry and IMU**
CSIFSD0039	**Omnidirectional Warehouse Robot with Mecanum Wheels**
CSIFSD0040	**Classical Dijkstra-Based Autonomous Delivery Robot**
CSIFSD0041	**Two-Wheel Self-Balancing Transport Robot with Payload Compensation**
CSIFSD0042	**Wheel-Legged Robot for Stair and Ramp Traversal**
CSIFSD0043	**Hybrid Wheel-Leg Robot for Rough Terrain**

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CSIFSD0044	**Self-Balancing Cargo Robot with Variable Wheelbase**
CSIFSD0045	**Wheel-Legged Inspection Robot for Industrial Floors**
CSIFSD0046	**Terrain-Adaptive Four-Wheel Robot Using Mechanical Suspension**
CSIFSD0047	**Variable-Height Mobile Robot Chassis**
CSIFSD0048	**Tilting Three-Wheel Delivery Robot for Uneven Roads**
CSIFSD0049	**Ball-Balancing Robot with Classical NMPC/LQR Control**
CSIFSD0050	**Jump-Capable Wheeled Robot with Torque-Limited Actuation**
CSIFSD0051	**Magnetic Wheeled Robot for Vertical Steel Pipe Inspection**
CSIFSD0052	**Magnetic Wall-Climbing Robot for Tank Inspection**
CSIFSD0053	**Magnetic Robot for Weld-Joint Inspection**
CSIFSD0054	**Pipe-Crawling Robot with Variable Diameter Adjustment**
CSIFSD0055	**External Pipe Inspection Robot with Modular Magnetic Wheels**
CSIFSD0056	**Cable-Climbing Robot for Power-Line Inspection**
CSIFSD0057	**Vacuum-Adhesion Wall-Climbing Inspection Robot**

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CSIFSD0058	**Magnetic Robot for Solar-Panel Frame Inspection**
CSIFSD0059	**Underwater Circular-Pipe Inspection Robot**
CSIFSD0060	**Bridge-Pier Climbing Inspection Robot Prototype**
CSIFSD0061	**Autonomous Precision Seed-Sowing Rover**
CSIFSD0062	**Variable-Rate Seed Dispensing Mechanism**
CSIFSD0063	**Row-Following Agricultural Robot Using IR/Ultrasonic Sensors**
CSIFSD0064	**Automatic Drip-Irrigation Rover for Crop Rows**
CSIFSD0065	**Mechanical Weed-Removal Robot for Vegetable Beds**
CSIFSD0066	**Solar-Powered Agricultural Monitoring Rover**
CSIFSD0067	**Automatic Fertilizer Dispensing Rover with Flow Control**
CSIFSD0068	**Fruit-Picking Manipulator with Force-Limited Gripper**
CSIFSD0069	**Precision Spraying Robot with Solenoid Valve Control**
CSIFSD0070	**Small Greenhouse Climate-Controlled Mobile Robot**
CSIFSD0071	**Mini Automated Assembly Line with PLC and Robotic Pick-and-Place**

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CSIFSD0072	**Automatic Part Sorting Conveyor Using Sensors and Pneumatic Actuators**
CSIFSD0073	**Digital-Twin-Based Mini Production Cell Without AI**
CSIFSD0074	**RFID-Based Automated Material Handling System**
CSIFSD0075	**Pneumatic Pick-and-Place System with Cycle-Time Optimization**
CSIFSD0076	**Automatic Screw Feeding and Tightening Station**
CSIFSD0077	**Automatic PCB Testing and Sorting Station**
CSIFSD0078	**Modular Robotic Workstation with Automatic Tool Change**
CSIFSD0079	**Conveyor-Based Robotic Packaging Cell**
CSIFSD0080	**Machine-Vision-Free Dimensional Sorting Machine Using Laser/Proximity Sensors**
CSIFSD0081	**Low-Cost Knee Rehabilitation Exoskeleton with Adjustable Torque**
CSIFSD0082	**Wearable Elbow Rehabilitation Robot with Encoder Feedback**
CSIFSD0083	**Shoulder-Assistance Exoskeleton for Overhead Work**
CSIFSD0084	**Passive–Active Hybrid Knee Support Device**

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CSIFSD0085	**Cable-Driven Hand Rehabilitation Glove**
CSIFSD0086	**Servo-Based Wrist Rehabilitation Device with Adjustable ROM**
CSIFSD0087	**Mechanical Finger Rehabilitation Device with Force Limiting**
CSIFSD0088	**Haptic Forearm Sleeve Using Pneumatic Artificial Muscles**
CSIFSD0089	**Adjustable Assistive Walking Knee Joint Mechanism**
CSIFSD0090	**Human–Robot Force-Limited Collaborative Joint Module**
CSIFSD0091	**Active Suspension Prototype with Electronic Ride-Height Control**
CSIFSD0092	**Semi-Active Suspension Using Magnetorheological-Damper Principle**
CSIFSD0093	**Regenerative Suspension Energy-Harvesting Prototype**
CSIFSD0094	**BLDC Motor Torque-Ripple Measurement and Compensation System**
CSIFSD0095	**Series-Elastic Actuator for Safe Robotic Joint Operation**
CSIFSD0096	**3D-Printed Telescopic Linear Actuator**
CSIFSD0097	**Cable-Driven Robotic Hoist with Vibration Suppression**

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CSIFSD0098	**Miniature Piezoelectric Positioning Platform**
CSIFSD0099	**Aerial–Aquatic Amphibious Flapping Robot Prototype**
CSIFSD0100	**Energy-Regenerative Wearable Robotic Joint**

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