

Robotics Internship Topics

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50
Active Categories

5
Focused Areas

Internships
Internships

Robotics Internship Categories

AI Robot Perception Research https://internships.nthrys.com/robotics/ai-robot-perception-research	Machine Learning Robot Learning Research https://internships.nthrys.com/robotics/machine-learning-robot-learning-res
AI Motion Planning Research https://internships.nthrys.com/robotics/ai-motion-planning-research	AI Soft Robotics Research https://internships.nthrys.com/robotics/ai-soft-robotics-res
AI Multi-Robot Systems Research https://internships.nthrys.com/robotics/ai-multi-robot-systems-research	AI Manipulation & Grasping Research https://internships.nthrys.com/robotics/ai-manipulation-grasping-research
AI Robot Navigation Research https://internships.nthrys.com/robotics/ai-robot-navigation-research	AI Legged Robot Research https://internships.nthrys.com/robotics/ai-legged-robot-research
AI Human-Robot Trust Research https://internships.nthrys.com/robotics/ai-human-robot-trust-research	AI Field Robotics Research https://internships.nthrys.com/robotics/ai-field-robotics-research
Robot Vision System Development https://internships.nthrys.com/robotics/robot-vision-system-development	Autonomous Drone Flight Control https://internships.nthrys.com/robotics/autonomous-drone-flight-control
Robotic Arm Kinematics Research https://internships.nthrys.com/robotics/robotic-arm-kinematics-research	Sensor Fusion Integration Systems https://internships.nthrys.com/robotics/sensor-fusion-integration-systems
Real-time Path Planning Algorithms https://internships.nthrys.com/robotics/real-time-path-planning-algorithms	Swarm Robotics Coordination Research https://internships.nthrys.com/robotics/swarm-robotics-coordination-research
Deep Learning Vision Models https://internships.nthrys.com/robotics/deep-learning-vision-models	Robot Gripper Design Optimization https://internships.nthrys.com/robotics/robot-gripper-design-optimization
Simultaneous Localization Mapping https://internships.nthrys.com/robotics/simultaneous-localization-mapping	Humanoid Robot Balance Control https://internships.nthrys.com/robotics/humanoid-robot-balance-control
Reinforcement Learning Robot Training https://internships.nthrys.com/robotics/reinforcement-learning-robot-training	Collaborative Robot Safety Systems https://internships.nthrys.com/robotics/collaborative-robot-safety-systems
Underwater Robot Propulsion Research https://internships.nthrys.com/robotics/underwater-robot-propulsion-research	Computer Vision Pose Estimation https://internships.nthrys.com/robotics/computer-vision-pose-estimation
Robot Motion Capture Systems https://internships.nthrys.com/robotics/robot-motion-capture-systems	Wheeled Robot Traction Dynamics https://internships.nthrys.com/robotics/wheeled-robot-traction-dynamics
Semantic Scene Understanding https://internships.nthrys.com/robotics/semantic-scene-understanding	Robot Task Planning Architecture https://internships.nthrys.com/robotics/robot-task-planning-architecture

Aerial Manipulation Research https://internships.nthrys.com/robotics/aerial-manipulation-research	Tactile Sensing Integration https://internships.nthrys.com/robotics/tactile-sensing-integration
Robot Localization GPS-denied https://internships.nthrys.com/robotics/robot-localization-gps-denied	Automated Robot Calibration Methods https://internships.nthrys.com/robotics/automated-robot-calibration-methods
Biologically-inspired Robot Locomotion https://internships.nthrys.com/robotics/biologically-inspired-robot-locomotion	Predictive Collision Avoidance Systems https://internships.nthrys.com/robotics/predictive-collision-avoidance-systems
Robot Grasp Quality Metrics https://internships.nthrys.com/robotics/robot-grasp-quality-metrics	Drone Swarm Cooperative Mapping https://internships.nthrys.com/robotics/drone-swarm-cooperative-mapping
Neural Network Robot Control https://internships.nthrys.com/robotics/neural-network-robot-control	Wheeled-legged Hybrid Robots https://internships.nthrys.com/robotics/wheeled-legged-hybrid-robots
Object Detection Real-time Systems https://internships.nthrys.com/robotics/object-detection-real-time-systems	Robot Dexterous Hand Control https://internships.nthrys.com/robotics/robot-dexterous-hand-control
Visual Servoing Control Methods https://internships.nthrys.com/robotics/visual-servoing-control-methods	Quadrotor Trajectory Optimization https://internships.nthrys.com/robotics/quadrotor-trajectory-optimization
Force Control Robotic Assembly https://internships.nthrys.com/robotics/force-control-robotic-assembly	3D Scene Reconstruction Methods https://internships.nthrys.com/robotics/3d-scene-reconstruction-methods
Mobile Manipulation Integrated Systems https://internships.nthrys.com/robotics/mobile-manipulation-integrated-systems	Semantic Mapping Robot Environments https://internships.nthrys.com/robotics/semantic-mapping-robot-environments
Snake-like Robot Locomotion https://internships.nthrys.com/robotics/snake-like-robot-locomotion	Attention Mechanisms Robot Vision https://internships.nthrys.com/robotics/attention-mechanisms-robot-vision
Parallel Gripper Jaw Control https://internships.nthrys.com/robotics/parallel-gripper-jaw-control	Terrain Classification Mobile Robots https://internships.nthrys.com/robotics/terrain-classification-mobile-robots

Robotics Internship Topics and Focused Areas

Autonomous Drone Flight Control

- Vision-Based Autonomous Navigation
- Flight Control System Design and Optimization
- Multi-Agent Drone Coordination and Swarm Control
- Path Planning and Obstacle Avoidance Algorithms
- Sensor Fusion and State Estimation for Autonomous Flight

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