

ATOM Robotics Lab

Product Development

Project Name	Project Description	Year
MR Robot (Modular Robot)	An Autonomous Mobile Robot developed for Research and Development on Autonomous Navigation Technologies with ROS framework.	2022-2024
A.J.G.A.R (6 DOF Robotic Arm)	A 6 DOF Robotic Arm Developed for Flipkart Grid Competetition.	2023-2025
MR Robot 2.0 (Modular Robot)	An Autonomous Mobile Robot developed for Research and Development on Autonomous Navigation Technologies with ROS2 framework.	2024-2025
Hexapod	A ROS 2-powered six-legged robot, uses inverse kinematics for agile, precise, and versatile movement.	2024-2025
IRIS	A smart spectacle developed to assist blind using computer vision.	2024-2025
CNC Machine	Machinery operated by computers and used for the fabrication of different parts and goods	2022-2024
Coal Miner	A Smart security device developed to track and assist the coal miners working in dangerous mining environments.	2022-2025
Tribot	A 4 tri- star wheel robot designed to manouvere through offroad environment, climb stairs and shoot balls	2023-2025
Line Follower	A smart Line following Robot	2023-2025
Drone	Smart drones developed on ROS/ROS2 Frameworks, uses path planning algorithms to travel between objects, detects obstacles using computer vision.	2023-2025
Swarm bot	Omni-drive swarm bots capable of operating within a fleet while ensuring a sharp formation from a third person perspective (top view).	2023
Nano navigator	Robot Developed for Nano navigator tournaments uses path planning algorithms like flood fill to reach the destination	2023-2025

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