Comparison of miniUGV with existing platforms

Sr. no.		1	2	3	4
Robot name		Pololu Zumo	Nvidia Jetbot Ai	Turtlebot Burger	**Proposed - miniUGV**
Structural	Weight	160 grams		900 grams	350 grams
	Size	100x100x45 mm		138 x 178 x 192 mm	130 x 120 x 55 mm
	Drive type	Differential with track drive		2 Differential drive + 2 castors	4 wheel drive
Sensors	Monocular camera	No	8 MP ; 30/60 FPS ; Monocular camera	No (can be added)	5 MP ; 30/60FPS ; Monocular camera
	IR	2 front ; 1 left ; 1 right	No (can be added)	No (can be added)	2 front
	LIDAR	No	No	Yes	No
	IMU	6 DoF IMU	No (can be added)	9DoF IMU	6 DoF IMU
Communication		No	Wifi/Bluetooth	Wifi/Bluetooth	Wifi/Bluetooth
Actuator / Display		Buzzer / OLED display unit	OLED Display	No	EPM - electro-permanent magnet
Computation power		Atmel microcontroller	Cortex-A57 + 128 Core GPU	Rpi 3 b + OpenCR	Rpi zero W + ESP 32
Battery type		4x AA Alkaline battery	Li-ion/Li-Po/Portable power Bank	Lipo Battery	2x 18650 Li-ion battery
Operation time		45 mins	65-90 mins	85-110 mins	30 mins
Programmable		Arduino platform	Debian platfrom / ROS	Debian platform / Arduino / ROS	Debian platform / ESP-IDF / ROS