

Electronic + Sensors

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ROS installation

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Sensors	Idea	
<u>Lidar A2</u>	• RPI setup	
<u>4G module</u>	• Setup and configuration	
<u>GPS/IMU</u>	• code	4356.74328 <-- 4394.5725 --> offset = +37.82922 -7853.72402 <-- -7889.05409 --> offset = -35.33007
<u>DJI Trello</u>	• Configuration + FLy	
<u>DJI Mavic3 drone</u>	• 3D modeling from 2D images • SDK programming tutorial • RTOS SDK for DJI	
<u>GPS sensor</u>	• Setup and configuration	

Jeston based Node	Idea	
<u>Lidar A2</u>	• jetson lidar setup • Rpiadr ROS	
<u>4G module</u>	• Setup and configuration • video	
<u>4G antenna</u>		
<u>IMU+other environment-sensor</u>	• setup	4356.74328 <-- 4394.5725 --> offset = +37.82922 -7853.72402 <-- -7889.05409 --> offset = -35.33007
<u>GPS antenna</u>	• Setup and config	
<u>Jetson yahboom</u>		
<u>Waveshare jetson nano</u>	• Setup + configuration • Setup new Jeston Nano • Setup pytorch + jupyter • opencv	
<u>Jetson Nano Metal Case/Enclosure</u>	• assembly	
<u>Antenna extension cable</u>		
<u>Metal Black Zip Ties</u>		
<u>Metalic sheet to fix the jetson</u>		

[in the box](#)