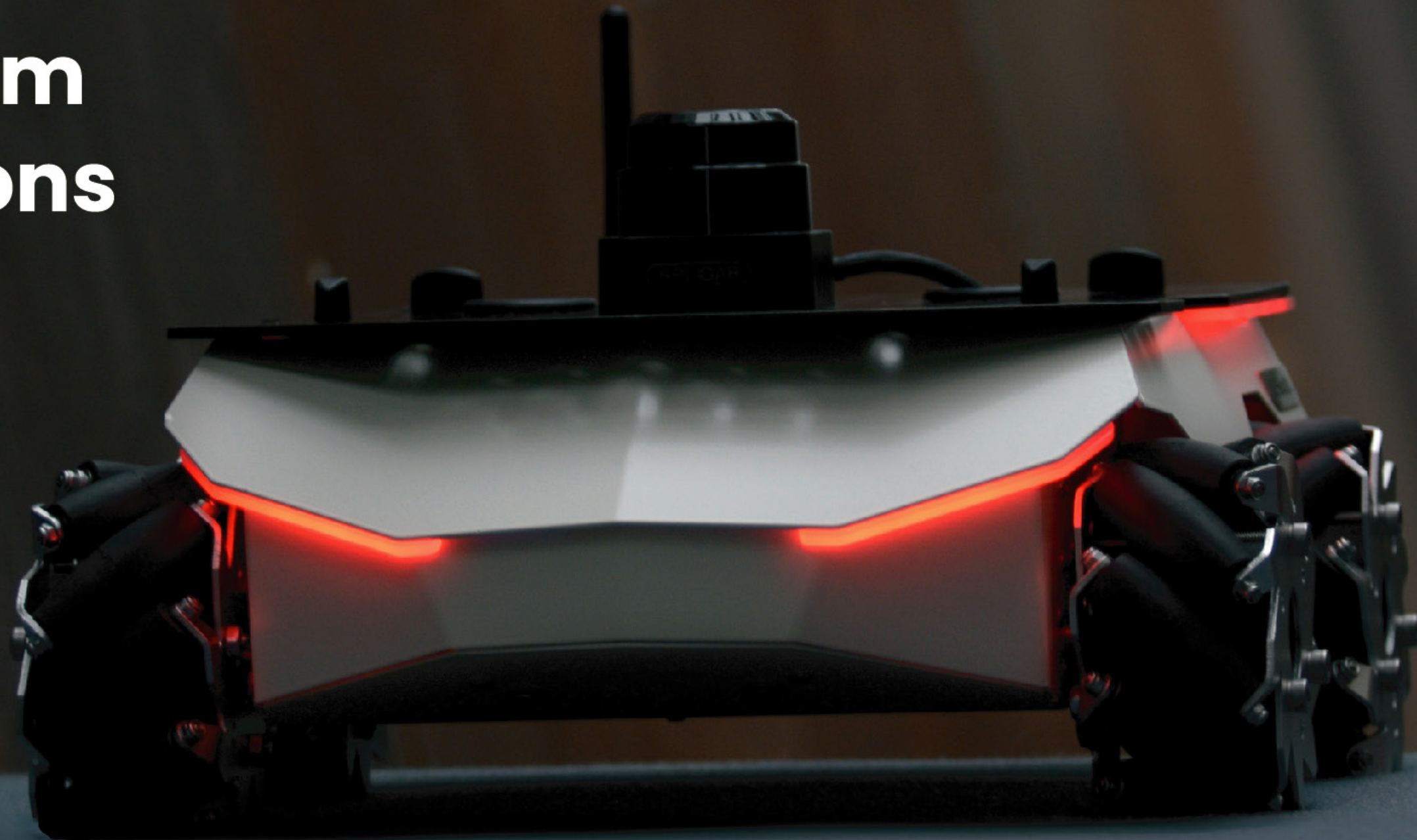


# ROSbot XL

## Mobile Robot Platform for Indoor Applications



### Go-to platform for indoor applications

ROSbot XL is a universal, ROS 2-native autonomous mobile robot platform dedicated for R&D and custom indoor use cases. The platform features robust hardware reinforced with dedicated tutorials and reference setups based on popular projects from the ROS 2 ecosystem, such as Nav2, Slam toolbox, ROS control or Fast DDS Discovery Server.

### Powerful firmware

Great hardware is complemented by performance optimized embedded firmware based on micro-ROS and FreeRTOS with hardware accelerated PID for each motor. You can easily modify the firmware to meet the strict requirements of your project as Husarion's solution uses both Arduino framework and PlatformIO.

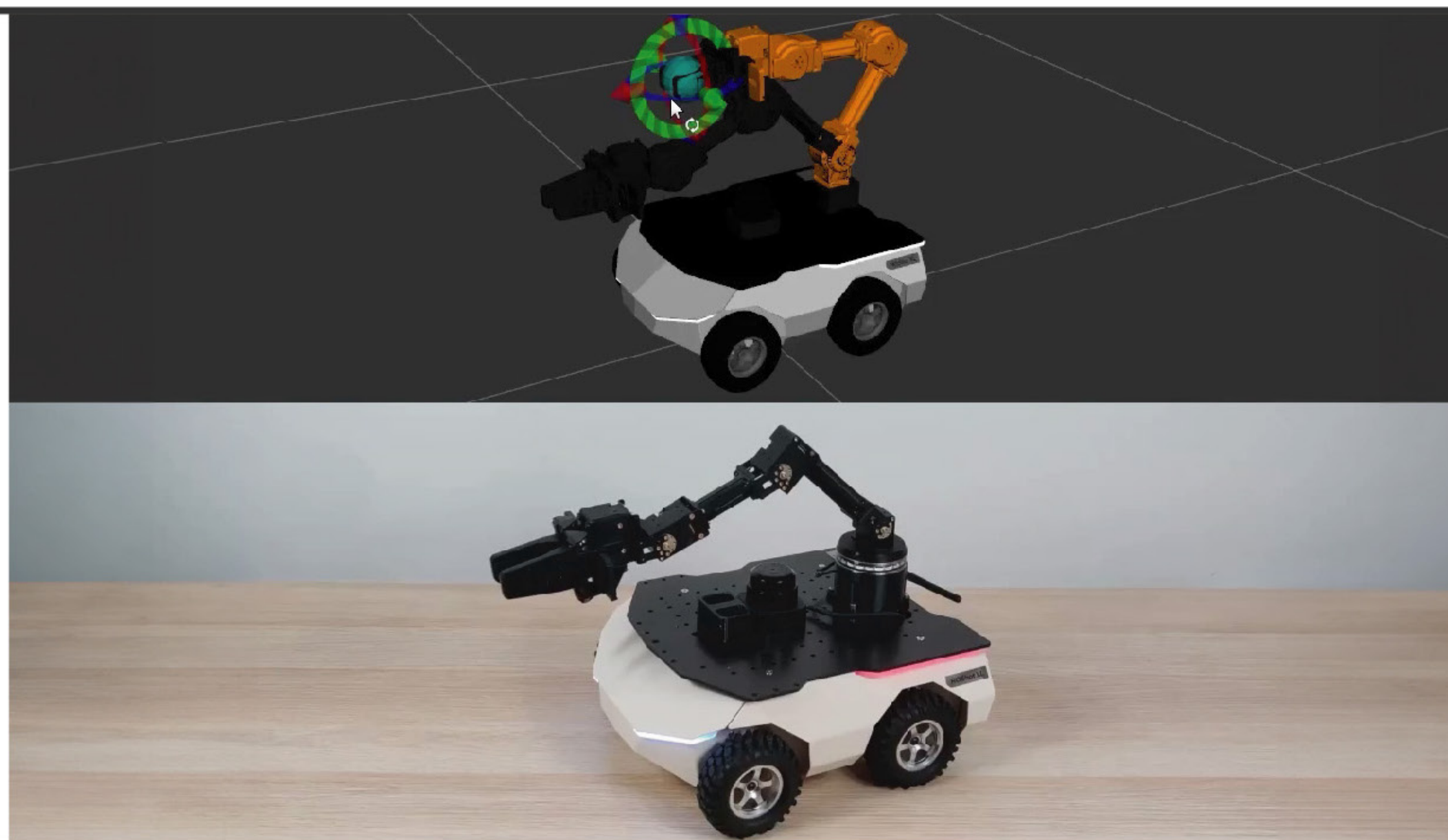
### Adaptability for various use cases

Thanks to its efficient, modular electronic design, ROSbot XL can be smoothly integrated with various external components. It also provides a high level of computing platform flexibility, allowing for easy replacement of the default Single Board Computer with one that best suits your demanding use case.

#### RESEARCH & EDUCATION



#### CUSTOM INDOOR USE CASES



## What our clients say

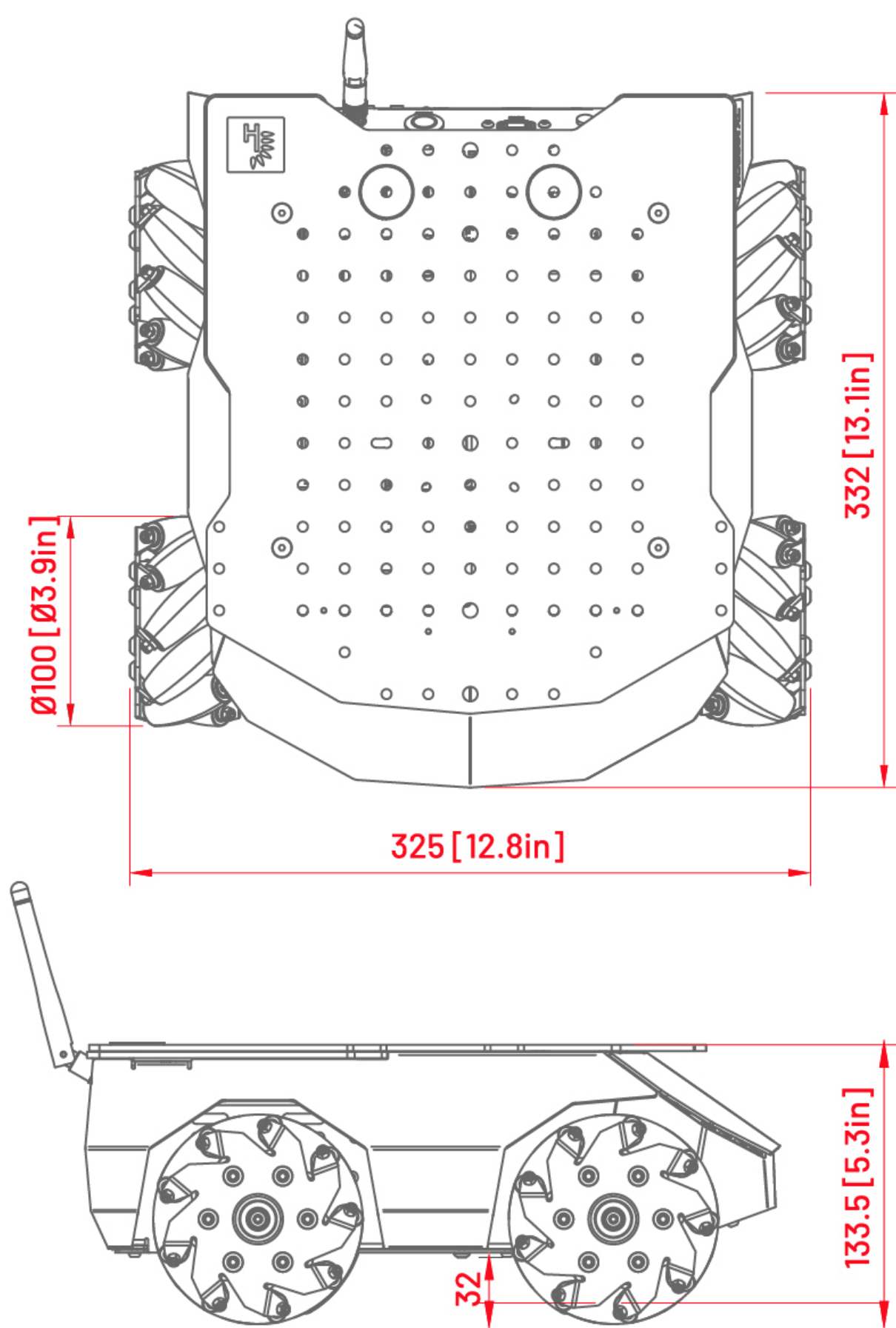
"ROSbot XL is an excellent, reliable product, offering ROS 2 Control with real time and micro-ROS, omnidirectional wheels, a simple charging system and many more advancements. We use it as a part of the Robotics Developer MasterClass, where our students can control this robot remotely from their homes. As ROSbot XL offers reference setups based on popular projects from the ROS 2 ecosystem, such as Nav2, Slam toolbox, or Fast DDS Discovery Server, it truly enhances the remote learning experience and enriches our students' understanding of robotics."



**Ricardo Tellez**  
CEO & Founder of The Construct






# ROSbot XL



## PARAMETERS

Weight	5380 g
Max. transitional velocity	0.8 m/s
Max. rotational velocity	180 deg/s

SOFTWARE		Easy to use ROS/ROS 2 microservices
		Example use cases
		Tutorials
		Ubuntu & Ubuntu Core based system images

POWER SUPPLY	2-6 h of battery life
	Selectable power for SBC supply (5 V, 12 V, 19 V)
	ROS 2 driver available also in Docker and Snap package

CONFIGURATION PACKAGES	Basic Package (Raspberry Pi / Intel NUC / NVIDIA Orin Nano)
	Telepresence Package
	Autonomy Package
	Manipulation Package
	Manipulation PRO Package



Visit ROSbot XL manual for more information

Let's connect  
and chat about your use case

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