NASHENBOT

AI Educational Robot

---for STEAM and AI Education

>> The educational programming robot specially tailored for K-12 students worldwide <<

What you really need?

NASHENBOT

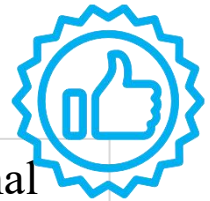
A cheap robot kit?

A coding platform?

One AI featured robot?

Robot curriculum?

A robot competition?



Empower Younger's Global Journey with an International Platform for High-Tech Learning & Cultural Exchange Through:

- ✓ Coding Robot Base – Hands-on robotics mastery
- ✓ Multinational Exchange Class – Cross-cultural collaboration
- ✓ Global Study Tour – Immerse in innovation hubs worldwide
- ✓ International Robotics Competition – Showcase skills on the global stage

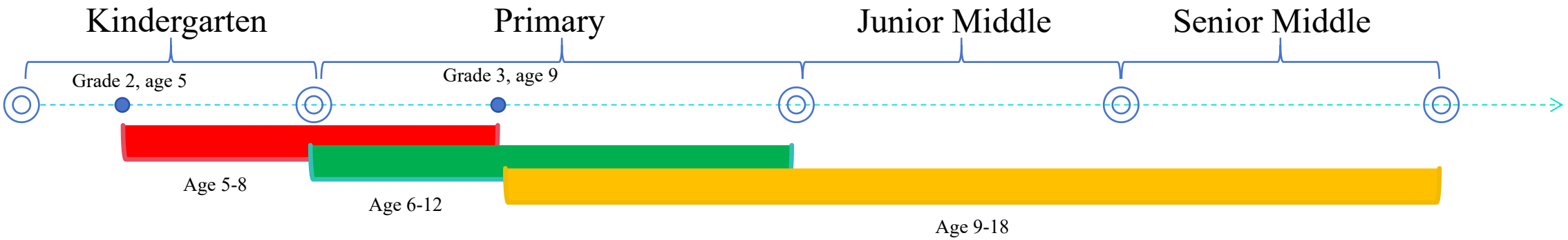
Hi Nashenbot, we are here to satisfy your real need.

Our solutions

NASHENBOT

We offer more than robots—an international platform for global high-tech and cultural exchange.

K-12 Product list



MPBOT Big Block

Micro-brain programming robot for kids aged 5-8

Standard kit: MPBOT 609

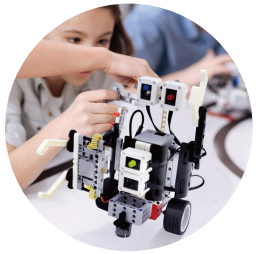
Expansion kit: MPBOT Expansion Kit S and D

MPBOT S Series

Micro-brain and PC Programming Robot

Course kit: MPBOT S1

Contest kit: MPBOT S2



AISTEAM Series

AI + Robot + Maker 3 in 1

Basic kit: AISTEAM 203S

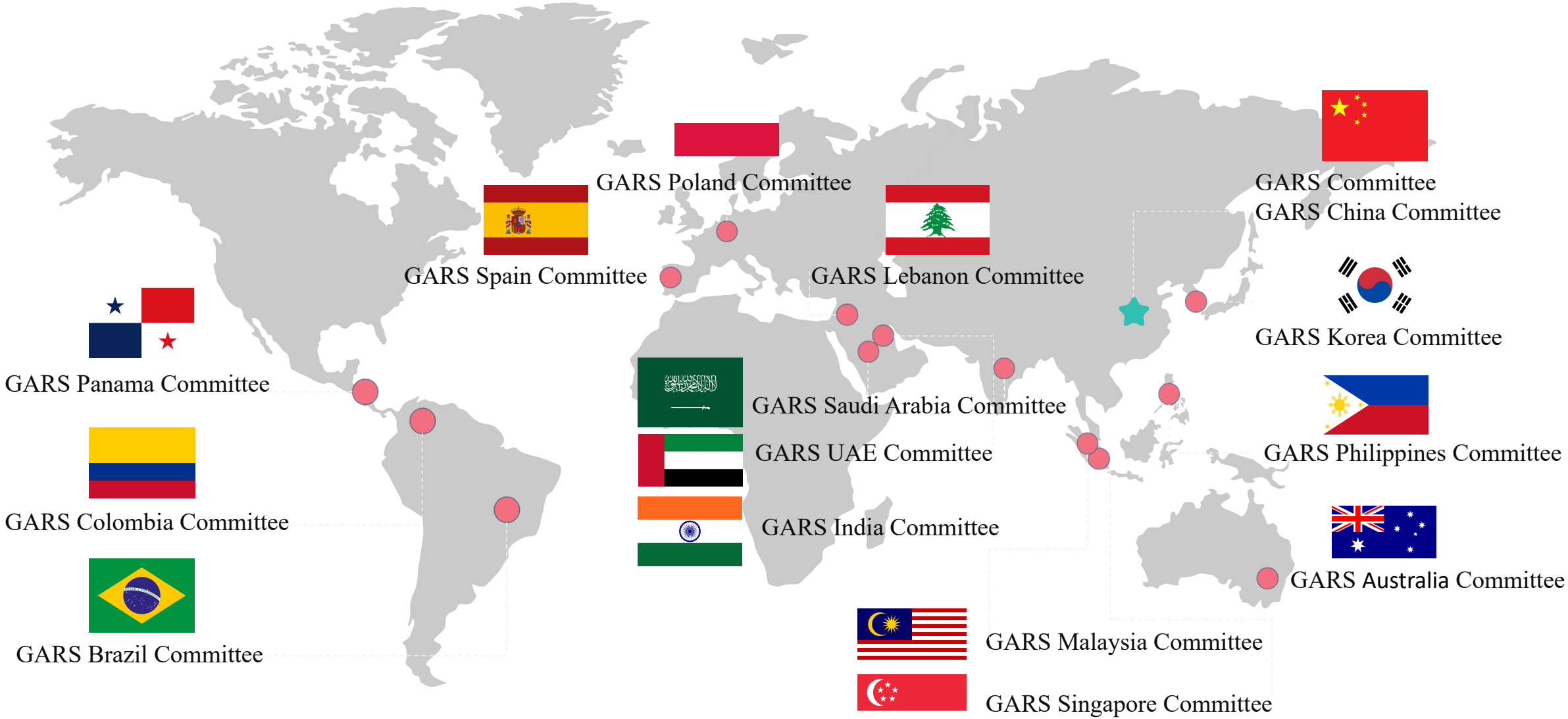
Course kit: AISTEAM 101S

Contest kit: AISTEAM 205S

GAR International Platform

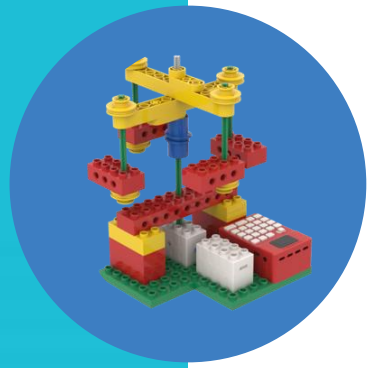
The Global Artificial Intelligence Robot (GAR) platform, led by the Global Artificial Intelligence Robot Society (GARS), is a premier global ecosystem empowering youth aged 5–18 through integrated AI/robotics education, cross-cultural exchange, and international perspective development. Key initiatives include multinational STEM-cultural exchange classes, immersive global innovation center tours study with cultural experiences, and an international robotics competition culminating in a World Championship. Together, these foster globally conscious innovators who leverage technology to bridge cultures and drive positive change.

GARS members worldwide



MPBOT Big Block

Micro-brain Programming Robot



>> An educational programming robot specially tailored for kids aged 5-8 worldwide <<

Introduction

Micro-Brain Programming Robot (MPBOT Big Block) was independently developed by Nashenbot, a cutting-edge AI educational robotics company. Designed specifically for teachers of kindergarten senior classes and primary school lower grades, this robotics kit allows students to experience the excitement of AI programming and grasp foundational concepts without requiring computers or tablets. Compatible with existing building block systems like Lego® Early Simple Machines Set 9656, the MPBOT Big Block, supported by its comprehensive curriculum, enables young learners to progressively master programming concepts.

- **Product name:** Micro-brain programming robot
- **Model name:** MPBOT609, MPBOT Expansion Pack S/D
- **Main parts:** Micro-brain controller, closed-loop motor, red light, green light, infrared sensor, sound sensor, spindle box, large blocks
- **Suitable age:** 5-8 yrs

MPBOT Big Block

Unboxing Video

YouTube link: https://youtu.be/0YZmaRb8l4s

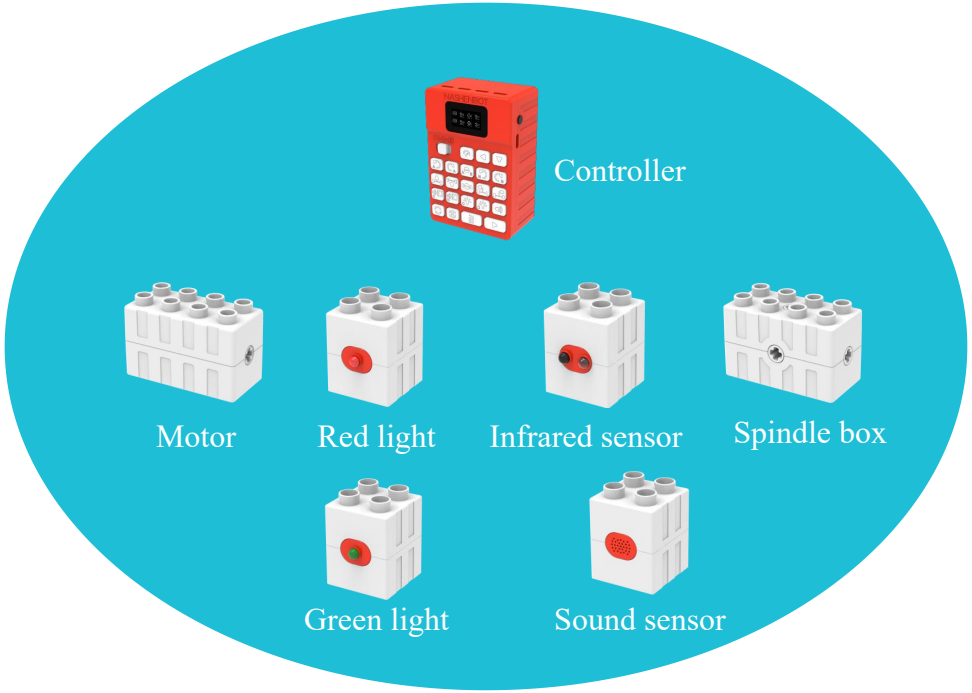
Highlight features

- ✓ Big blocks, easy building for kids;
- ✓ Screen-free, without additional tablet or PC for programming;
- ✓ Keyboard-screen interaction, more intuitive;
- ✓ Three operation models, unlimited creativity.

Key–screen interaction

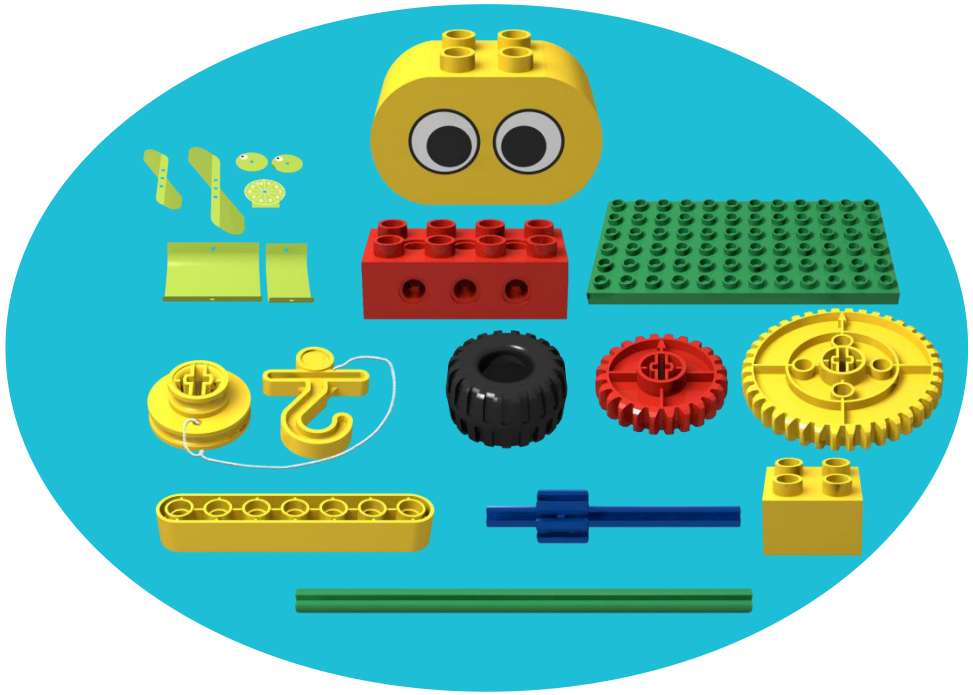
MPBOT Big Block

Hardware



Electronic parts

7 types



Blocks

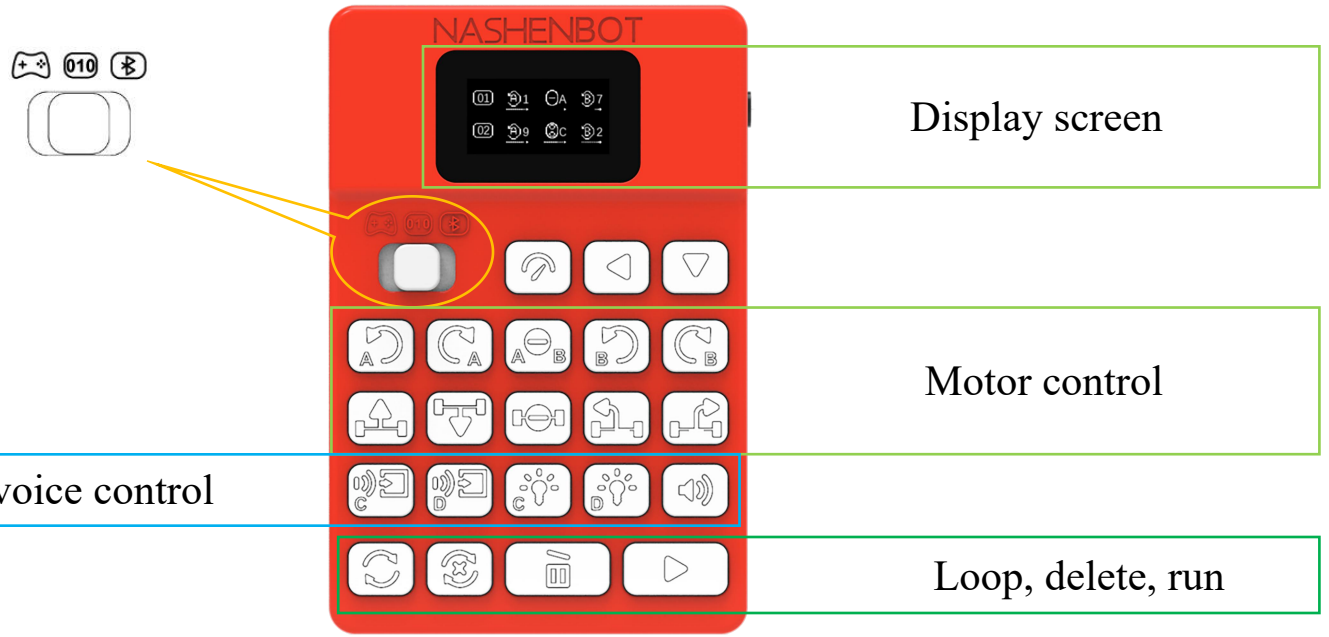
109 pieces

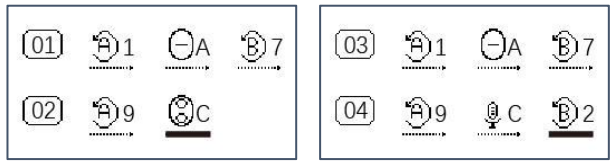
MPBOT Big Block

Software

Press buttons on controller to program, without any additional devices.

Mode 1: Real-time control
Mode 2: Key screen programming
Mode 3: Bluetooth connection





Curriculum

NASHENBOT

Main science courses:
Scientific exploration entails studying how variables influence the properties of simple machines, predicting and estimating their characteristics, conducting meticulous observations, and accurately describing and presenting the findings.

Main design and technology courses:
Develop expertise and comprehension through the utilization of diverse mechanical and structural components. Assess products based on technical standards and enhance design proficiency.

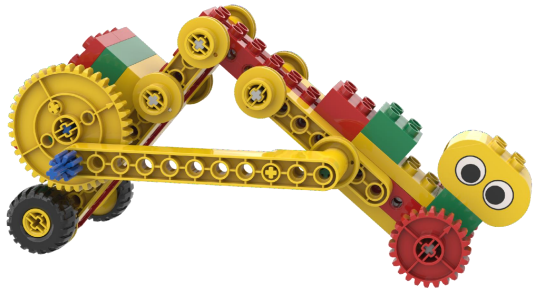
Programming courses:
Achieve varied effects by arranging and combining diverse program blocks to develop logical thinking abilities. Approach problems in a structured and analytical manner, seeking solutions through systematic reasoning.

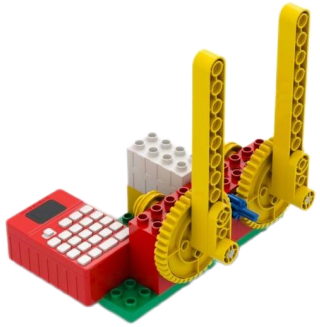
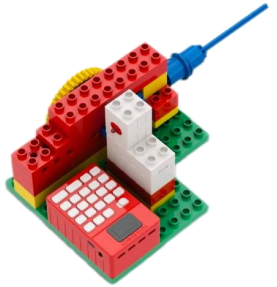
36+ curriculum

	Main science courses	Main design and technology courses	Programming courses
1. Movable long nose	✦ Research perspective ✦ Interlocking structure	✦ Material properties ✦ Design	✦ Real-time control ✦ Motor direction
2. Wipers	✦ Turbine structure ✦ Graphics	✦ Mechanism: turbine	✦ Obstacle avoidance module ✦ Motor direction
3. Drilling machine	✦ Gear transmission ✦ Luminous flux	✦ Design mechanical toys ✦ Structure and stability	✦ Real-time control ✦ Speed module
4. Night expert	✦ Rotation around an axis ✦ Circular motion	✦ Rotation around an axis ✦ Design mechanical toys	✦ Speed module ✦ Loop module
5. Gate	✦ Crank structure	✦ Mechanism: crank structure	✦ Motor direction ✦ Obstacle avoidance module
6. Elevator	✦ Crank connecting rod	✦ Mechanism: crank connecting rod	✦ Motor direction ✦ Motor speed
7. Juicer	✦ Read scale to measure water level ✦ Application of pulley	✦ Mechanism: pulley	✦ Stop module ✦ Obstacle avoidance module
8. Sluice	✦ Gear reduction ✦ Study of connecting rod	✦ Mechanism: connecting rod	✦ Loop module ✦ Speed module
9. Beneficial Insects and Pests	✦ Reciprocating motion ✦ Circular motion	✦ Mechanism: crank connecting rod	✦ Obstacle avoidance module ✦ Motion module
10. Dutch windmill	✦ Wind generation ✦ Two-point fixation	✦ Gear drive	✦ Lighting module ✦ Real-time control
11. Longevity Star	✦ Follow-up programming ✦ Gear rotation	✦ Mechanism: crank connecting rod	✦ Real-time control ✦ Obstacle avoidance module
12. Rotating Flying Chair	✦ Centrifugal force ✦ Motion trajectory	✦ Mechanism: central axis drive	✦ Lighting module ✦ Obstacle avoidance module

MPBOT Big Block

Projects





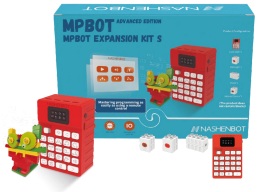





MPBOT Big Block

Kit list

Option 1: MPBOT 609, the standard kit with controller, motors, sensors, lights and blocks;
Option 2: MPBOT Expansion Pack S + D, with controller, motors, sensors and lights if 9656 kit ready.



Kit name	MPBOT 609		MPBOT Expansion Pack S		MPBOT Expansion Pack D	
Scenario	Standard kit		Main expansion pack		Additional expansion pack	
Controller (with lithium battery)		*1		*1		
Motor		*2		*1		*1
Spindle box		*2		*1		*1
Infrared sensor		*1		*1		
Sound sensor		*1				*1
Red light		*1		*1		
Green light		*1				*1
Blocks	*109		-		-	

Compatible with Lego® Early Simple Machines Set 9656

MPBOT Big Block

Applied in GAR Platform

MPBOT big block programming robot is the suitable robot kit for GAR International Online Exchange Class.

MPBOT Big Block

Applied in GAR Platform

MPBOT big block programming robot is the suitable robot kit for **GAR Family Robotics Challenge**.







NASHENBOT

AISTEAM

Artificial intelligence + Robot + Maker 3 in 1

>> An educational programming robot specially tailored for kids aged 9-18 worldwide <<

AISTEAM 3in1

Introduction

AISTEAM is a revolutionary product that has undergone two years of polishing, the research and development. Based on the fusion of AI and STEAM EDUCATION concept, it combines artificial intelligence, robotics and creators in one.

- **Product name:** AISTEAM series
- **Model name:** AISTEAM 203S, 101S, 205S
- **Main parts:** Controller, encode motor, servo motor, infrared, sound, touch, ultrasonic, grayscale, gyro, color, AI camera, lights...
- **Software:** AIcode (block & python programming on windows PC)
- **Compatibility**: Lego bricks, Microbit, Nashenbot AI camera
- **Suitable age:** 9-18 yrs

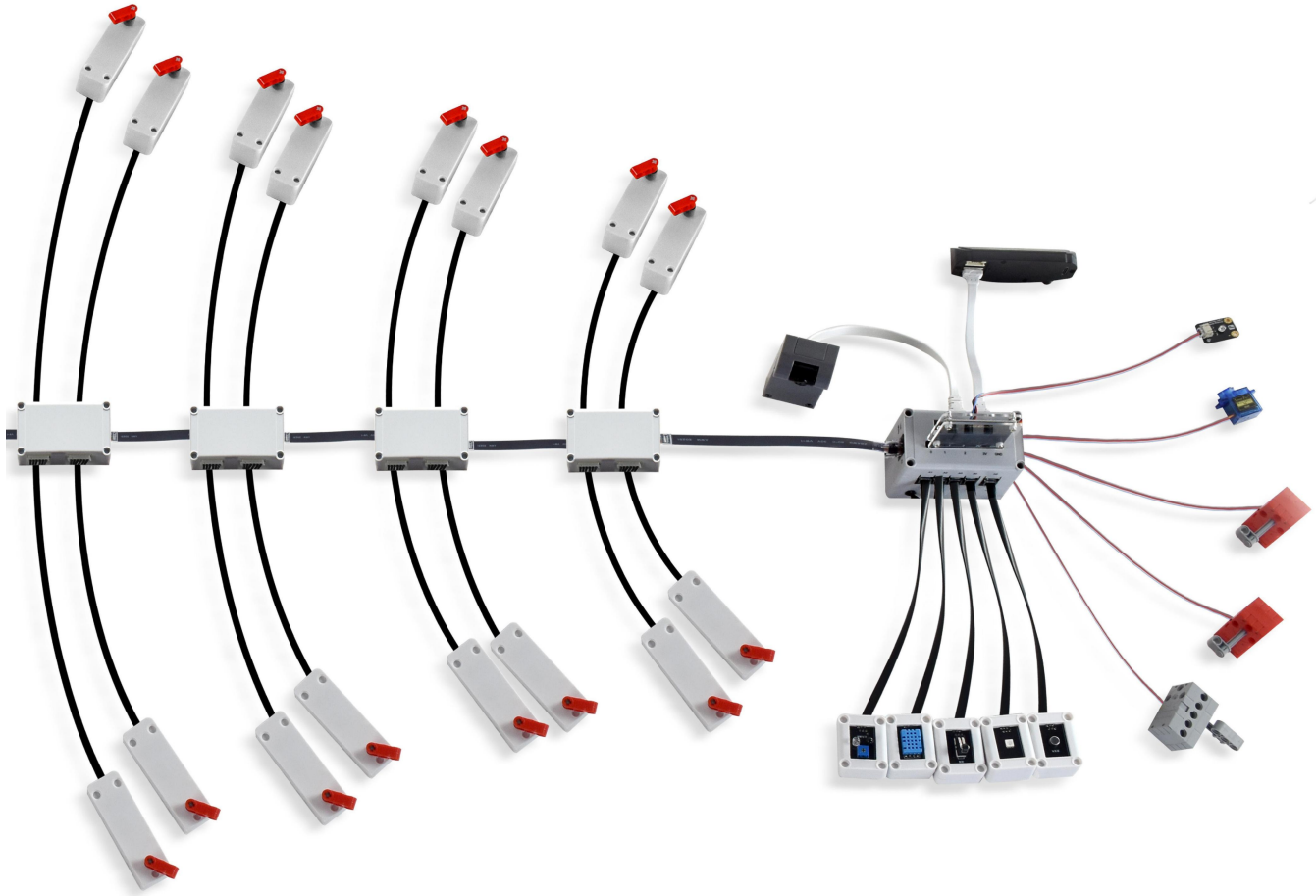
Unboxing Video

YouTube link: https://www.youtube.com/watch?v=k_1vHz7KY4M

Highlight features

Controller:

Equipped with 17 expansion interfaces, and able to be connected to hundreds of electronic modules.



10
Standard interfaces

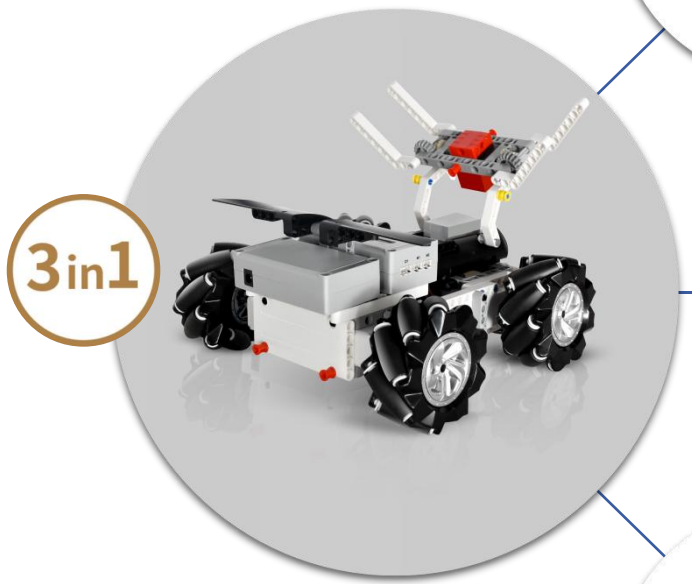
7
Extension interfaces

M3
ARM Cortex-M3 chip

Highlight features

NASHENBOT

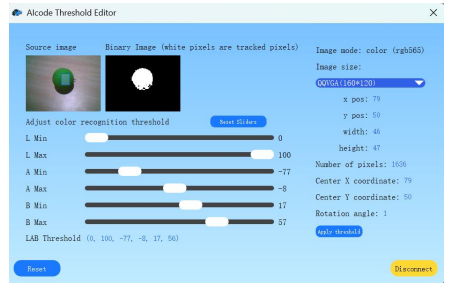
AI-Robot-Maker 3 in 1:



AI

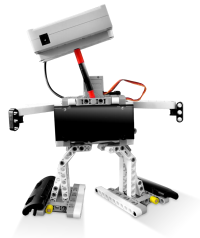
- AI color recognition
- QR code recognition
- Face detection
- Template matching

AI camera



Robot

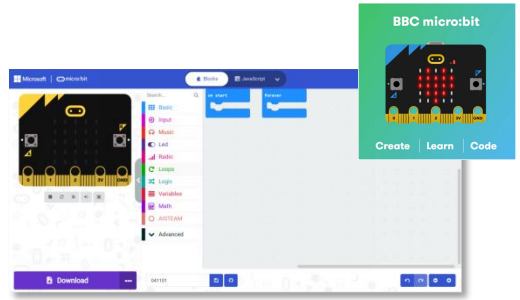
- Physical structures
- Motors & Sensors
- Coding/Programming
- Courses & Contest



Robotics

Maker

- Micro:bit
- Third-party's electronics parts
- Compatible with lego blocks, lasy blocks



Micro:bit

AISTEAM

Hardware

Controller *1
Types of bricks: 70+
Types of motors: 5+
Types of sensors: 14+
Types of wheels: 4+

Hardware

NASHENBOT

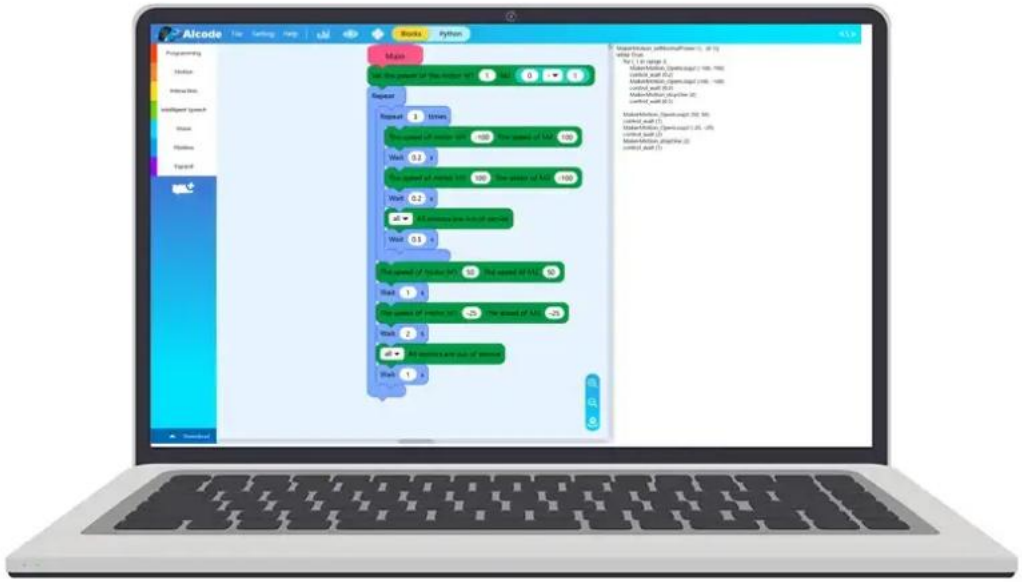
Main electronic parts

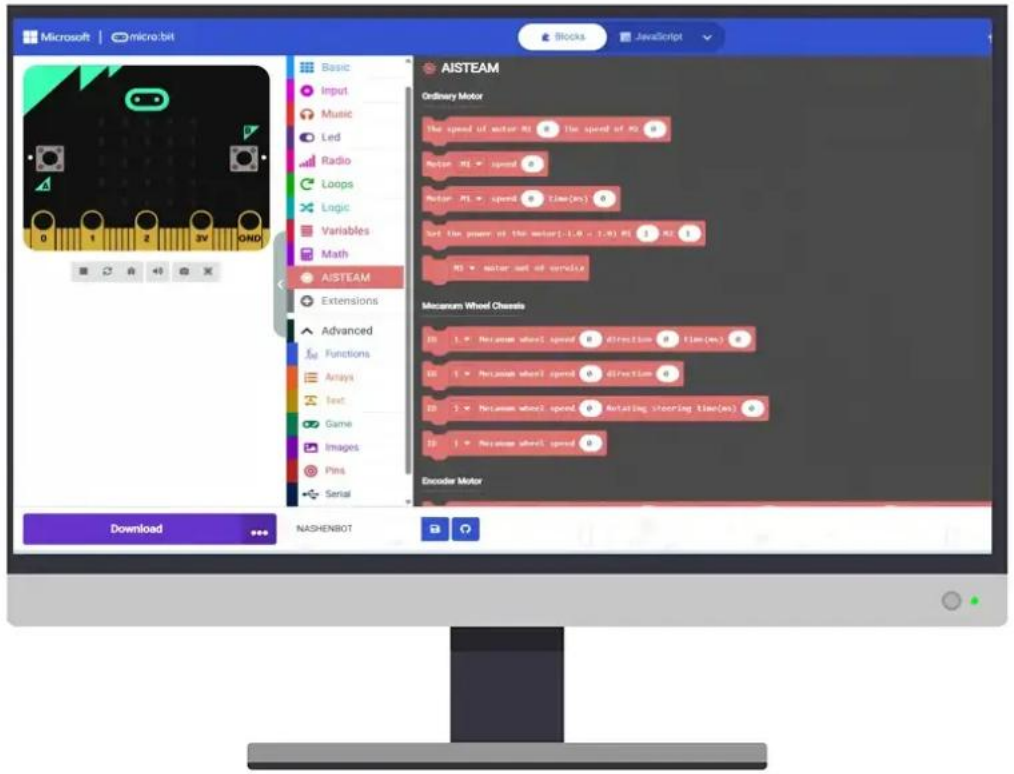
Controller		Motor		Sensor				Wheel		Others	
Controller		Encoder		Touch		Infrared		Mecanum		Display	
		130 closed-loop		Sound		Integrated 5-Grayscales		Big wheel		Full color light	
		Motor expansion		Light		Ultrasonic		Small wheel		Fan	
		Open-loop		Temperatur e&humidity		Infrared RemoteControl		Universal		Red light	
		Ordinary		Flame		Buzzer				Green light	
		Servo		Gyro		Single-line follower				Yellow light	
				Color		AI camera				Lithium battery	

AISTEAM

Software

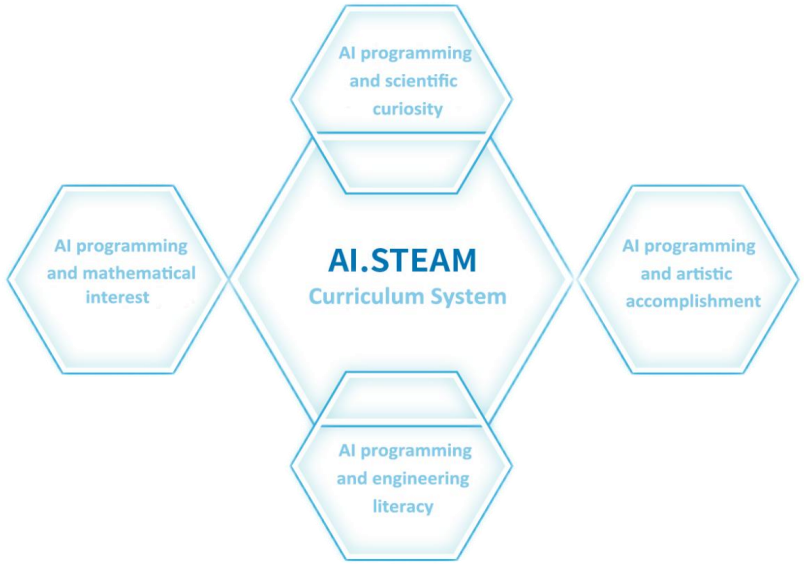
Supports AICODE and MakeCode platforms with graphical (Scratch), Python, and multi-language programming capabilities.





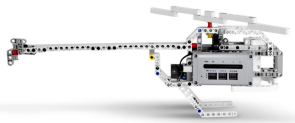
Curriculum

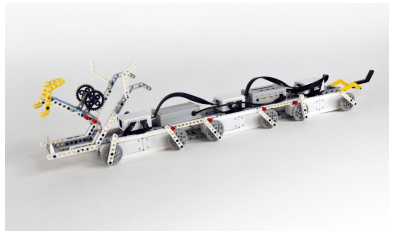
The AISTEAM curriculum is a collaborative development between NASHENBOT Artificial Intelligence Education Research Institute and Zhejiang University Huzhou Institute's AI & Robotics Education Research Center. This comprehensive program establishes a multi-tiered AI innovation education framework encompassing interdisciplinary studies, competitive training, project-based learning, programming instruction, and competency evaluation.



E	P	M	Y	C
Series	Series	Series	Series	Series
Enlightenment Courses	Project Courses	AI Programming and mathematical interests	Integrated Course	Competition Courses

Projects





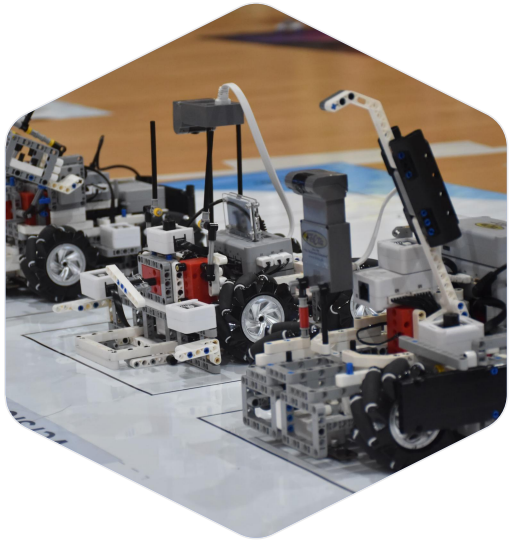
Kit list

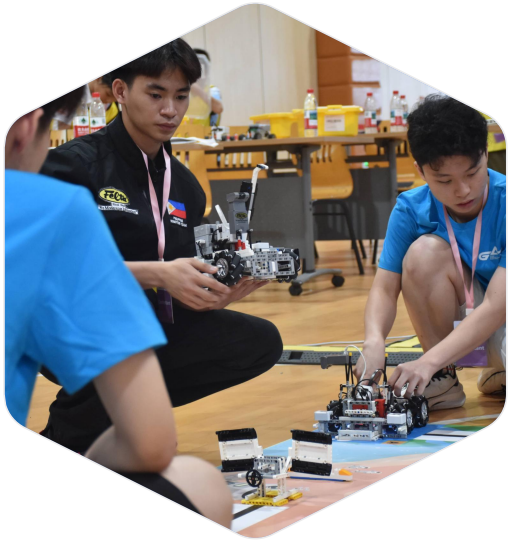


Kit name		AISTEAM 203S		AISTEAM 101S		AISTEAM 205S	
Scenario		Basic kit		Course kit		Contest kit	
Controller			*1		*1		*1
Actuator	Open loop motor		*2				
	Encoder motor				*4		
	Ordinary motor				*1		*1
	Servo motor				*1		*1
	130 closed-loop motor						*4
	Motor expansion module				*1		*1
	Full color light		*2		*2		
Sensor	Single-line follower sensor		*1		*3		
	Integrated 5-grayscales sensor				*1		*1
	Infrared remote control module		*1		*1		
	Infrared sensor		*1		*1		
	Buzzer module				*1		
	AI camera						*1
Others	Display screen				*1		*1
Blocks		400+		500+		500+	

Applied in GAR Platform

AISTEAM series is the suitable robot kits for primary grade 4-6, junior middle and senior middle school students to attend GAR Version A competition.





MPBOT S

Micro-brain and PC Programming robot

>> An educational programming robot specially tailored for kids aged 6-12 worldwide <<

Introduction

MPBOT S integrates Nashen's Micro-brain programming system, offering a lightweight solution that combines robot control and programming without relying on computers or tablets. It supports both Micro-brain programming (for standalone operation) and desktop-based modular/Python programming, providing flexible development options. This dual compatibility makes it ideal for participating in competitions like GAR (Global Artificial Intelligence Robot) and WRO (World Robot Olympiad) contest, where diverse programming approaches and reliable hardware performance are required.

- **Product name:** MPBOT S series
- **Model name:** MPBOT S1, MPBOT S2
- **Main parts:** Controller, motor, open-loop motor, servo motor, infrared, sound, touch, ultrasonic, grayscale, magnetic, color, light sensor, full color light...
- **Software:** Micro-brain programming & AIcode (block & python programming on windows PC)
- **Compatibility**: Lego bricks
- **Suitable age:** 6-12 yrs

Unboxing video

YouTube link: https://www.youtube.com/shorts/VoiokLPqLaE

Highlight features

Key & screen interaction delivers more intuitive handheld operation

The palm-sized MPBOT S main controller adopts an interactive programming method combining keys and screens, and the keyboard is magically controlled.

Three operating modes, unlimited creativtiy: *Real-time control, Bluetooth connection, Key screen programming*

Multiple power options

3-speed power support

Record voice

Integrate voice recording and playback

Line tracking

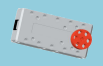
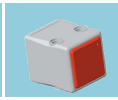
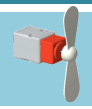
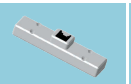
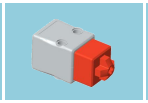
Follow lines by grayscale sensor

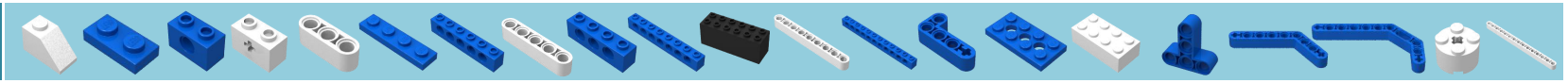
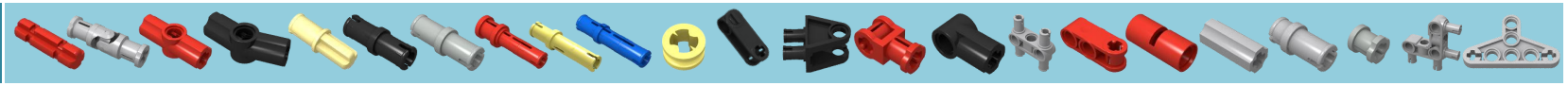
Sound detection

Analyze sensor feedback based on sound intensity

Hardware

Main electronic and brick parts

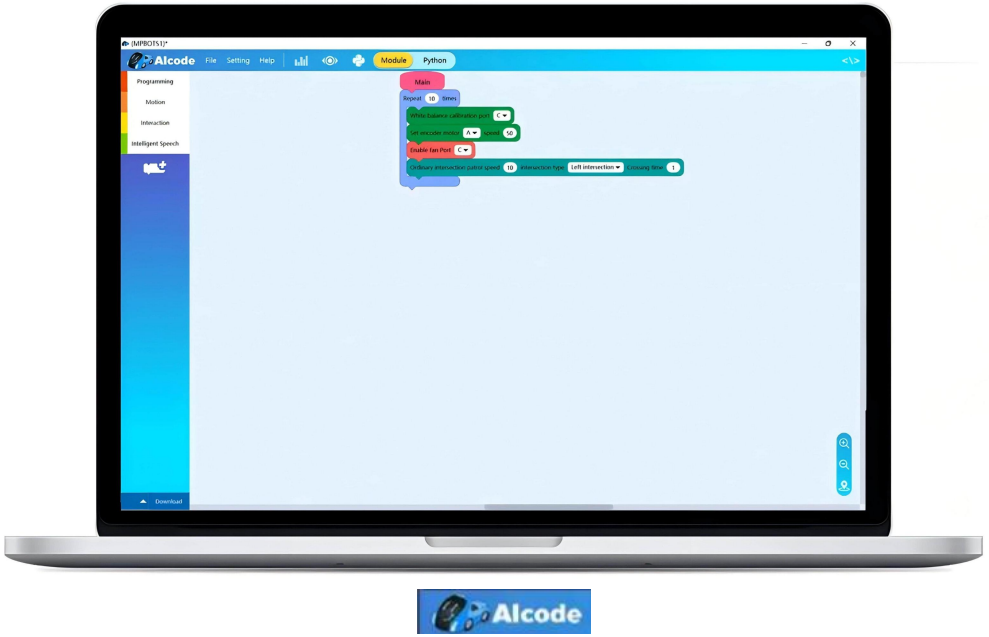
Controller		Motor		Sensor				Others	
Controller		Closed-loop		Infrared		Magnetic		Fan	
		Open-loop		Sound		Ultrasonic		Full color light	
		Servo		Integrated 5-Grayscales		Light			
				Color		Touch			

Structure parts	
Connection parts	
Transmission parts	
Others	

Software

MPBOT S series supports both micro-brain key-screen programming and PC blocks/Python programming

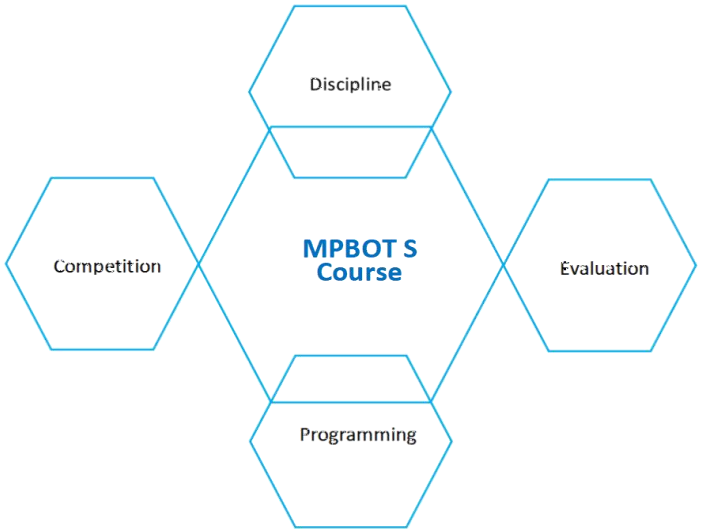
Programming on controller



Block/Python programming
on Windows PC

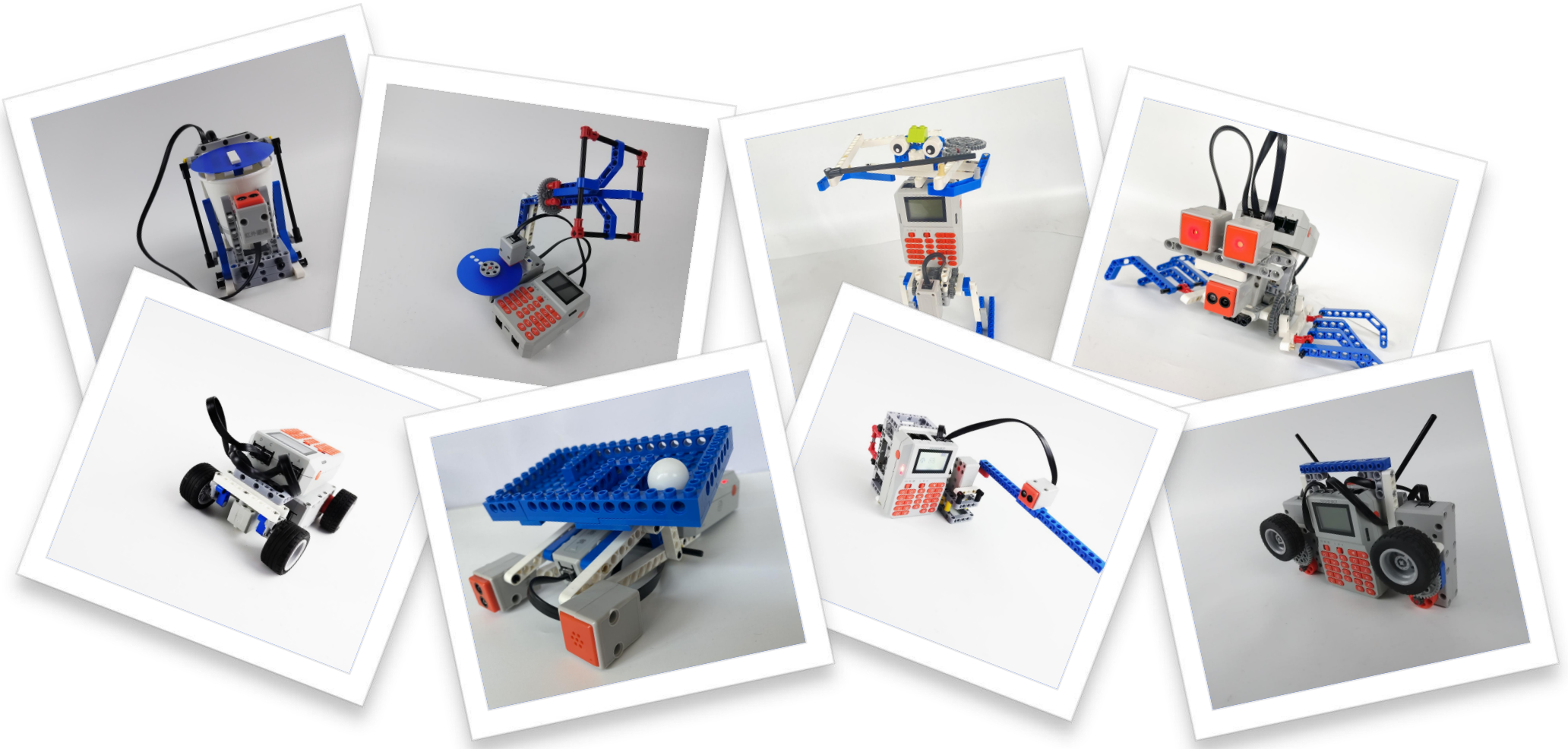
Curriculum

The MPBOT S1 course, developed through collaborative research by leading institutions including Nashenbot Artificial Intelligence Education Research Institute, Zhejiang University, Tongji University, and Shanghai Normal University, offers a comprehensive AI education framework. This interdisciplinary curriculum integrates competitive robotics, project-based learning, and programming fundamentals with standardized evaluation methods, creating a tiered system that caters to learners at all levels. Designed to bridge theoretical knowledge with practical applications, the course emphasizes hands-on innovation while aligning with academic rigor.



30+ curriculum

Projects



Kit list

There are two models of MPBOT S series based on different kinds of scenario.

Kit name	MPBOT S1		MPBOT S2	
Scenario	Course kit		Contest kit	
Controller (with lithium battery)		*1		*1
Motor		*2		*2
Open-loop motor		*1		*1
Servo motor		*1		*1
Infrared sensor		*1		
Sound sensor		*1		
Color sensor		*1		*1
Full color light		*2		*1
Blocks	700+		500+	

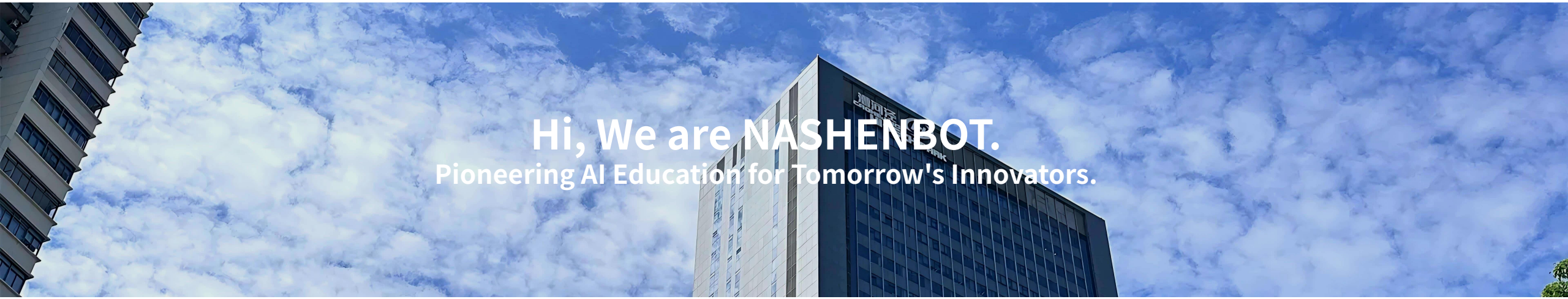
Applied in GAR Platform

NASHENBOT

MPBOT S series is the suitable robot kits for primary grade 1-3 to attend GAR Version B competition and primary grade 4-6 to attend GAR Version A competition.

G A R

About Nashenbot



Nashenbot, founded in 2019, an innovative high-tech company incubated by the Zhejiang University Huzhou Institue, is at the forefront of artificial intelligence education, providing cutting-edge robotics and AI learning solutions to schools and institutions worldwide. With a mission to democratize AI education, we desgin engaging, practical, and pedagogically sound products that inspire the next generation of creators, thinkers and problem-solvers.

THANK YOU

NASHENBOT

www.nashenbot.com

info@nashenbot.com