STOKES EDUCATION

Go1 Line
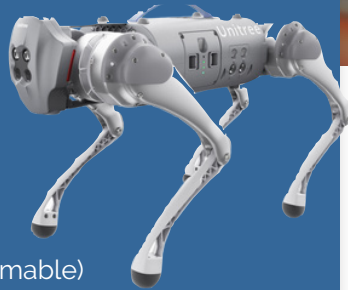### Powered by Unitree Robotics

Go1 PS
Basic Model

- Human Recognition
- Intelligent Side Follow
- Full-view Coverage
- Five Cameras
- AI Processing (Non Programmable)
- Object Avoidance
- Max Speed over 10 mph
- Strong and Reliable Power System
- 10 lb. Carrying Capacity

Curriculum units include:

- Intro to Quadrupeds
- Robot Agility and Recovery
- Autonomous Control
- Capturing Video from Robot
- Adding Features to Quadruped Robot
- Carrying Loads with Quadruped Robo

Go1 CP
Standard Model
Includes all the features of the Go1 PS plus:

- Multiple Ports for Input and Output Devices
- Research API
- C++ API
- 4G and 5G
- Foot Force Sensor
- Multi-function Extensio

Intelligent Robots That Work

Go1 AI
Advanced Model

I ncludes all the features of the Go1 PS and Go1 CP plus:

- Lidar
- Dynamic Obstacle Avoidance
- Navigation Planning
- Map Construction
- Artificial Intelligence Module
- Gesture Recognition
- Skeletal Recognition
- Visual SLAM
- Programmable AI

Using Visual SLAM, the robot leverages its 3D vision to perform location and mapping functions.

Curriculum units for CP and AI include:

- Intro to Quadruped Robotics
- Quadruped Robotics for Security
- Quadruped Robotics for Logistics
    - Programming in C++ with Robot SDK
    - Programming Robots in Python
    - Commercial Application
    - Adding Input and Output Devices
    - Carrying Payloads
    - Wireless Communication with Robot
    - Intro to Artificial Intelligence
    - Introduction to Lidar and Mapping

Leaders in STEM Education

Since 2005 Stokes Education has provided advanced robots with curriculum, STEM materials, equipment, and customized curriculum solutions to schools.

The company's goal is to provide schools with specific educational solutions that best meet their needs.

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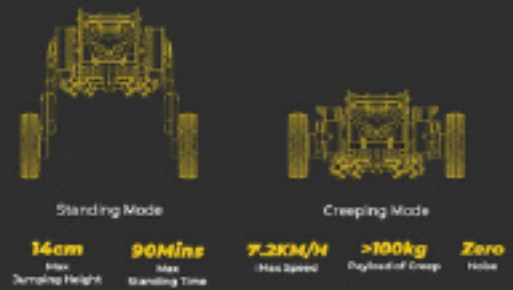
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AlienGo

The curriculum has students work with community partners to utilize the robot in addressing real-world problems.

AlienGo is a real-time exploration, navigation, and mapping robot. While ideal for professional and industrial environments, it's also an excellent tool for research and teaching.

The AlienGo robot dog offers all the functionalities of a robotics platform for autonomous navigation, surveillance, and exploration applications, even in hostile environments.

- Twice the Size of Go1
- High Level Sports Performance
- Skeleton Recognition
- Gesture Recognition
- Up to 20 lb. Payload
- Depth Vision
- 3D Environment Construction
- Probability Map
- Dynamic Object Perception
- Loop Detection
- Visual SLAM - Using Visual SLAM, the robot leverages its 3D vision to perform location and mapping functions.

Standing Mode — 14cm Max Jumping Height | 90Mins Max Standing Time

Creeping Mode — 7.2KM/H Max Speed | >100kg Payload of Creep | Zero Noise

Diablo

Diablo is the world's first direct-drive self-balancing wheeled-leg robot. This agile and balanced robot is powered by 6 Direct-Drive Motors with an open development platform for custom controls and DIY. Boost secondary development with a robot arm, searchlight, image sensor, rack, and more!

- Open Development Platform
- Python
- ROS
- Raspberry Pi
- C++
- SDK

B1

Release B1, protection grade IP68, focus on industrial landing, industrial super-large payload, dust-proof and waterproof.

- Water Proof
- Dust Proof
- Depth Camera
- 3 Ultrasonic Sensors
- Walking Speed up to 4 mph
- Foot End Force Sensor
- High Standing Payload (Up to 170 lbs.)
- Large Walking Payload (Up to 85 lbs.)
- Max Stair Climb Height of up to 7.5 Inches Per Stair
- Max Slope Climb of up to 35 Degrees
- Wireless Vector Positioning
- Endurance Time up to 4 Hours
- 4G and 5G Wireless Network Communications
- Autonomous Charging
- Security Mounting Platform
- Police Mounting Platform

The Z1 Robotic Arm
Powered by Unitree Robotics

- The Z1 Robotic Arm
- Compact and Light Weight
- Dexterous and Flexible
- Impressive Payload
- Good Accuracy
- Support Joint Force Control
- Collision Protection
- Mounts on AlienGo and B1
- Synergy in Robotics

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