

MINDS-i ROBOT

| MINDS-i ROBOTICS SYSTEM

STARTER KIT

MINDS-i STEM INTEGRATED ROBOTICS: ARDUINO ROBOT KIT

The 2-in-1 Arduino kit is the perfect entry point for those interested in programming. Build one of two chassis at a time: the Hexabot or the Line Follower. The Hexabot uses cam driven legs to navigate around the room avoiding objects with touch sensors, while the Line Follower uses “light sensing” QTI sensors to follow a path laid out and ultrasound sensors to avoid obstacles. The set includes easy to use visual instructions for building and programming.

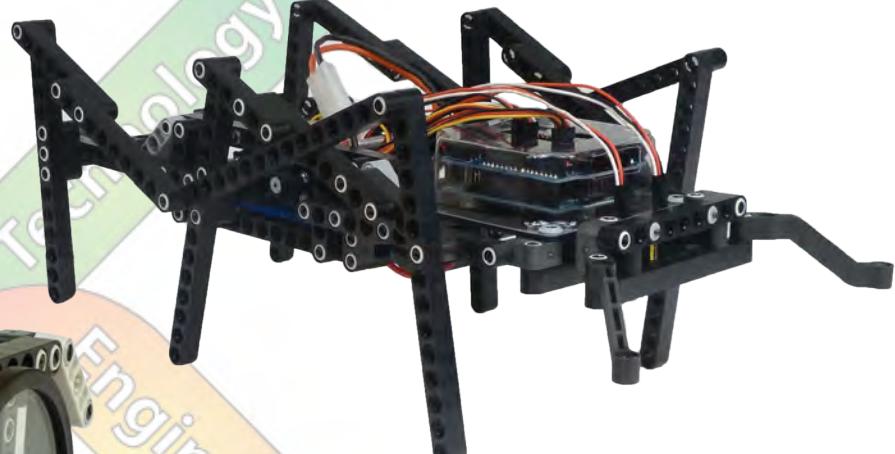
Continuous Learning and Improvement

Learn the basics of programming and then

expand your creations with the MINDS-i robotics platform. The MINDS-i quick lock system makes it's easy to build, test and redesign robots.

Kit Design

Each kit is designed for two to three students and requires about three hours to build and program. The Arduino Robot kit does not include curriculum. See our Foundations Lab and Drones Lab for curriculum.



Quick Lock and Unlock



Buttons

IR Light Sensor

Ultrasonic Sensor

Arduino

Servos

Rechargeable Battery

Quick Locks

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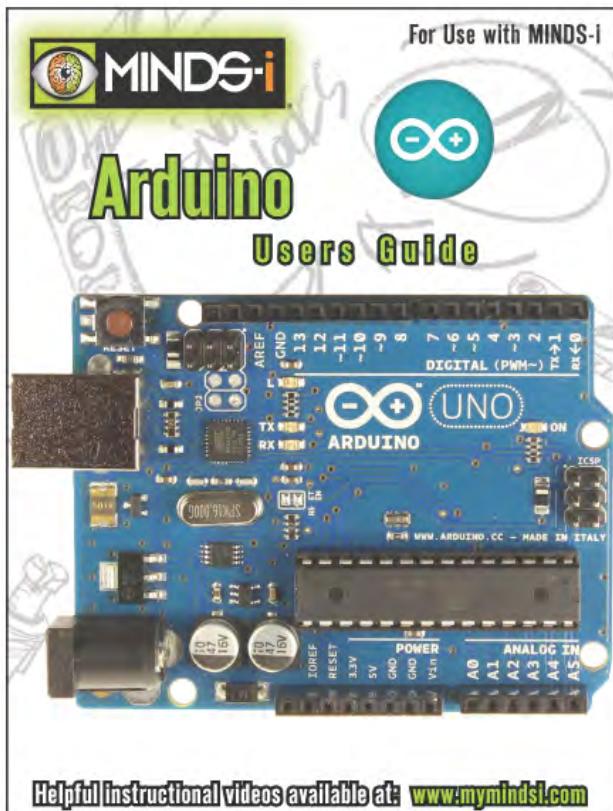
MINDS-i

PTT-ARD2-001

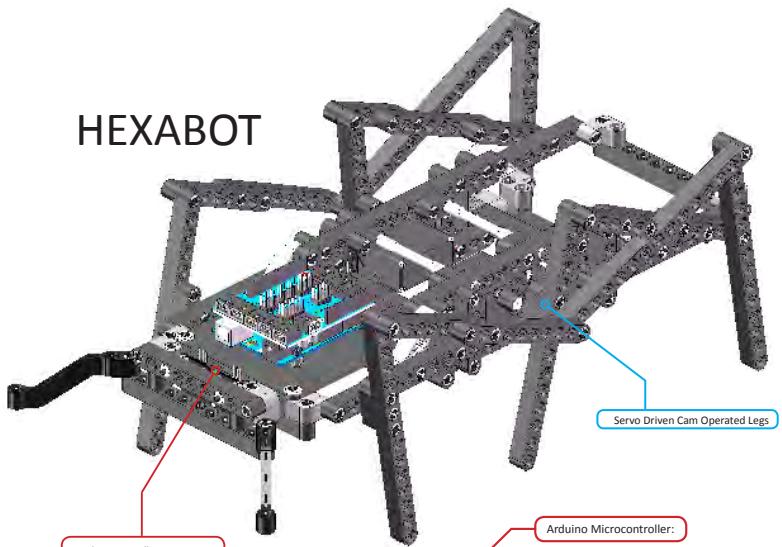
2-in-1 Arduino Robot Kit

How MINDS-i can help you teach programming

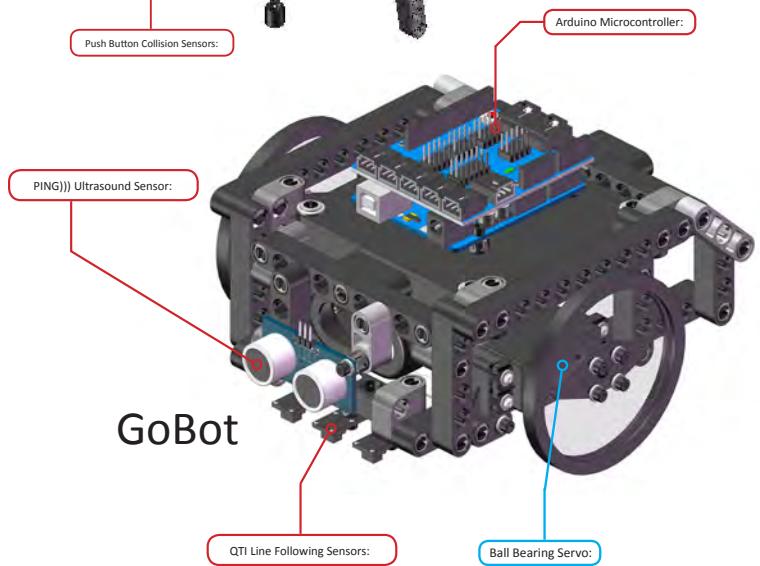
- Quick entry into programming with our full library of sample programs
 - Calibration: Get a reading from individual sensors or control servos and motors
 - Application: Utilize one sensor and one servo or motor to perform a simple task
 - Projects: Bring together multiple sensor inputs and servo/ motor outputs to perform a complex task



HEXABOT



GoBot



- Using the supplied chassis' allows the instructor and students to focus on the programming tasks as well as giving them the ability to quickly modify the chassis when needed
- We provide a step by step walk through of all of the sample code including descriptions of the complete code as well as notes for the different sections of the code

Arduino Programming Software & Leonardo Hardware

- 20 digital I/O pins
- 7 PWM channels
- 12 analog Input channels (with ADC)
- Serial & I2C communication ports
- 32 KB flash memory & 16 MHz
- Full set of sample code in library
- Windows 10, OS X & Linux Ready
- Digital ports can operate servos, motors and sensors

