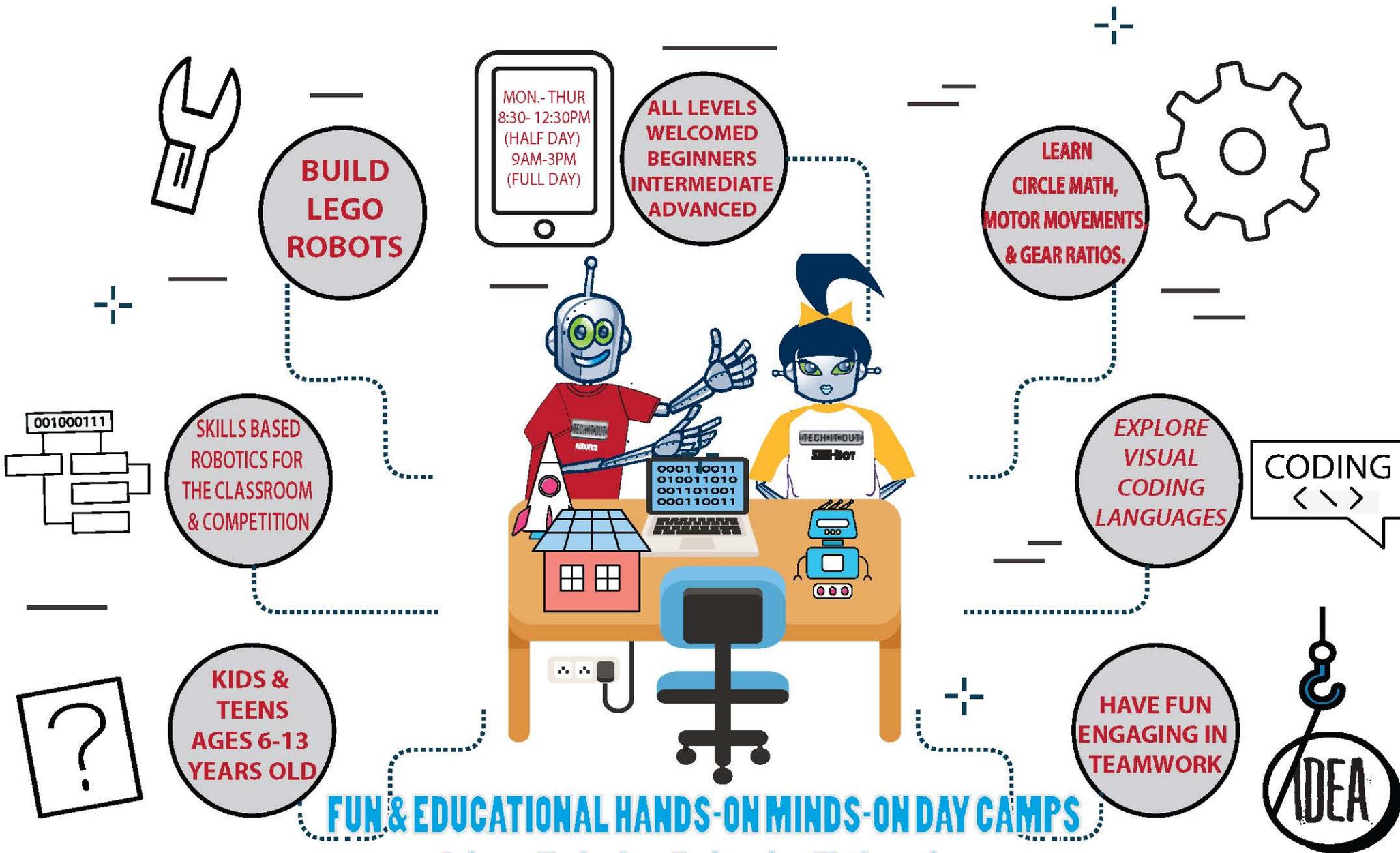


# SUMMER 2018 TECH IT OUT ROBOTICS CAMPS



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# SUMMER 2018 TECH IT OUT CAMPS DESCRIPTIONS

## LEGO WeDo 1.0- STEM LITERACY

"I-Stories" or "Interactive Stories" is a hands-on minds on learning experience that enhances students' reading, writing, speaking, designing and listening skills through project-based learning. Participants will CONSTRUCT their own stories from over 20 main characters LEGO models which they learn to CODE motors and sensors; and explore activities that develop their literacy skills.

Recommended: 1st - 3th Graders

## LEGO WeDo 1.5- MATH & SCIENCE

Participants will build models from LEGO featuring simple and complex machines. Learners will measure time and distance; add, subtract, multiply, divide and estimate to solve real world problems using robots.

Working in small teams, they CONSTRUCT and CODE models to learn how things work. Three Themes | Force & Motion | Energy Carnival | Civil Engineering

Recommended: 1st - 3rd Graders

## Tech It Out - GREEN Maker Jr. Camp

The maker movement is the umbrella term for inventors, designers and tinkerers. GREEN Makers will explore the sun and wind as renewable energy sources through hands-on, minds-on "green" energy make and take labs. Working in small teams, participants design, test, modify, and race solar powered cars and wind turbines.

Recommended: 2nd - 4th Grader (Jr.)

## ROBOTICS TEAM- JUMP START PROGRAM

- 1) **HOST** our camp at your location. It cost you nothing and requires little work. *Receive special group rates.*
- 2) **ADD** our camp to your summer enrichment program. We provide *skilled robotics teacher* and equipment.
- 3) **DESIGN** a customized camp for your organization. Let us create *an unique STEM program* for your learners.
- 4) **TRY** our camp by scheduling a *ONE DAY this SPRING!*
- 5) **JUMP START** a robotics teams by sending your group of learners to camp together. *Buy 3 and the 4th is FREE.*

Recommended: Educators and/or 2nd-8th Graders

## LEGO WeDo 2.0- CONSTRUCT. CODE.

In WeDo 2.0- Coding participants are engaged in hands-on STEM projects across science, engineering, technology, and coding. The thrilling combination of the LEGO brick, coding software, and challenging yet inspiring projects builds students' STEM skills, confidence and empower them to design their own solutions with their own hands.

Recommended: 3rd - 4th Graders (FLL Jr Teams)

## LEGO WeDo 2.5- INVENTION EXPO

Participants discover the wonders of science and technology through exploring a real-world problem by researching, teamwork, building, and imagination.

Learn how to code with the exciting academic activities that mix creative building with fun functions like motor movements, sensors, and sound effects to give their LEGO model a life of its own!

Recommended: 3rd - 4rd Graders- (FLL Jr Teams)

## Tech It Out- AEROSPACE Maker Camp

Join us for a high tech- low tech adventure into aerospace. Explore how engineers have developed new technologies in rocketry by constructing models of flying aircraft such as airplanes, helicopters, gliders, air and pop rockets. Design, construct, and launch water bottle and fuel rockets.

Discover drone technology and how it work.  
Recommended: 2th-4th (Jr.) 5th-8th Graders

## Tech It Out- SHEbot "GIRLS ONLY"

SHEbot: Fashion Forward demonstrates to girls that whether they are a "fashionista" or a "techie girl", STEM has a pathway to their dream career. In this challenge, girls will have the opportunity to develop their own choreographed fashion show, create patterns, sew garments, and bring their creative visions to life in a showcase catwalk. Teams work collaboratively to construct and code LEGO robots that rock the runway.

Recommended: 4th - 8th Graders

LEGO EV3 1.0 - SKILLS BUILDING CAMP "EV3 Skills Challenge" is a high tech academic camp where learners are introduced to the exciting world of robotics through constructing, coding and competing with the LEGO EV3 robots. Learners master the basic skills necessary for joining the robotics team or club. From coding to teamwork, parts names, pseudocoding, and circle math.

Recommended: 4th - 8th Graders (FLL Teams)

LEGO EV3 2.0 :DEEP LEARNING- SENSORS Quantitative measurements are the staple in this intermediate level camp. Campers will take what they learned in Level 1.0 and connect it to sensors using the LEGO NXT sensing systems. Hands on Minds On learning focuses on discovering the electrical, mechanical, and coding elements of the touch, color, gyro, sound, and ultrasonic sensor systems.

Recommended: 4th - 8th Graders- (FLL Teams)

Tech It Out- ENGINEERING Maker Camp Make STEM come to life through hands-on learning, real-world projects, and relevant technology that engages students. Campers will create their own designs, construct and code their LEGO EV3 Smart I-House which utilizes LEGO bricks, motors and sensors. Add fun features like automated garage doors, lights and cooling systems.

Recommended: 4th - 8th Graders

## LET US SCHOOL YOU IN ROBOTICS !

Tech It Out is committed to using the motivational value of robots to offer challenging yet fun hands on minds on learning experiences that increase learner's skills and content in science, technology, engineering and mathematics (STEM).

Our workshops, clinics and course series can help students and teachers increase their thrill and academic achievement whether in a formal or informal classroom or whether for competition or science fair. Contact us for a free consultation:

## FREQUENTLY ASKED QUESTIONS:

### What is Tech It Out Robotics?

TECH IT OUT Robotics is a high tech summer robotics camp taught by certified teachers where kids and teens learn to build, program and compete with robots of their own design in small teams. While having fun youth are engaged in teamwork, as well as computer programming, problem solving using math, engineering, design concepts, and critical thinking.

### Who can attend Tech It Out Camps?

KIDS Ages 6-9 years old  
(Kindergarten completion required)  
TWEENS Ages 10-12 years old  
TEENS Ages 13-18 years old

### When are the Tech It Out Camps?

Offered June- August Summer 2018  
4 Days (Monday- Thursday)  
Full Day (9AM-3PM) or Half Day \*(8:30-12:30PM)

### Where are the camps offered?

Atascocita\* | Houston-Heights | Humble\* | Kingwood\* | Pearland | Missouri City\*  
4 Days (Monday- Thursday)

### How much does it cost?

Description	Regular	Early Bird	Sale Price
LEGO-WeDo:	\$300.00	\$225.00	\$200.00
LEGO- EV3:	\$350.00	\$275.00	\$250.00
Maker Camps:	\$250.00	\$200.00	\$150.00
SHEbot "GIRLS":	-\$250.00	\$175.00	\$150.00
*(Half Day)-WeDo:	\$250.00	\$200.00	\$150.00
*(Half Day)- EV3/NXT:	\$275.00	\$225.00	\$175.00
\$25.00 OFF - Sibling Discount			
Team JUMP START Deal- BUY 3 Get 1 Free			
EARLY BIRD ends 5/1   SALE PRICE ends 4/1			

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art-i-fi-cial in-tel-li-gence; noun: AI  
the theory and development of computer systems able to perform tasks that normally require human intelligence, such as visual perception, speech recognition, & decision-making.

