

## *Are you the Next Generation? - Design, build, and program!*

### Summary of Program

Design, build, and program your own robot! Using the LEGO Mindstorms Robotics System, each participant will build and program their own robot! Participants will be introduced to various machine elements, sensors, servo motors, and programming through learn-by-doing. Students will complete a variety of missions incorporating usage of their different sensors (such as ultrasonic, sound, touch, light, temperature). Students will use a graphical programming interface to autonomously control their creations. Students will demonstrate their robots to parents on the final day in a culminating and exciting Sumo Challenge. The course utilizes proprietary robot models & activities. *(This is a level I class; Returning students should register for the Monday level II class).*

#### Logistics:

**Duration:** 1 hour weekly Thursday classes for 6 weeks (April 2, 16, 23, 30; May 7, 14)

**Capacity:** 24 students per class

**Age Range:** 3rd - 5th grade

**Location:** Vejar Elementary Multipurpose Room from 2:50 PM - 3:50 PM (right after school)

**Cost:** \$135

#### Benefits:

- Access to *expensive robotics materials costing \$400-\$600*
- Team usage of computers (3:1)
- Instruction by highly trained STEM instructors and some industry professionals who are specially trained with the STEM Center USA guided-discover pedagogy.



At just \$15/hour of instruction plus a nominal material fee, we do our absolute utmost to make our program as affordable as possible while still offering a cutting-edge, exciting, and hands-on opportunity for our kids!

#### Did you know?

Students with bachelor's degrees in engineering have the highest average starting salary offers compared with students with degrees in other subjects.

*-Office of Naval Research Stem to Stern*

# EXCITE-ENGAGE-EXCEL



## Registration Form

Class: Discover Robotics I at Vejar Spring 2015

<p><b>THURSDAYS</b>                  3rd - 5th graders                  2:50 PM - 3:50 PM (right afterschool)                  Dates (6 sessions):                      April 2, 16, 23, 30                      May 7, 14</p>	<p>Please make checks payable to STEM Center USA. <i>Return to Vejar front desk by <b>Friday, March 27th!</b></i> Classes will be filled on a first come, first serve basis. If a minimum class size is not reached, the program may be rescheduled or cancelled.</p> <p style="text-align: right;">Cost: <b>\$135</b></p>
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Please use all CAPS when filling out this registration form. Thank you!

**Student Name:** \_\_\_\_\_ **Age:** \_\_\_\_\_ **Grade:** \_\_\_\_\_

**Gender:** \_\_\_\_\_ **T-Shirt Size (Circle one):** YM YL YXL AS AM

**Address:** \_\_\_\_\_ **City:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip:** \_\_\_\_\_

**Parents/Guardian Name(s):** \_\_\_\_\_

**Email:** \_\_\_\_\_

**Phone (home):** \_\_\_\_\_ **(cell):** \_\_\_\_\_

**Emergency Contact**

**Name:** \_\_\_\_\_ **Relationship:** \_\_\_\_\_

**Phone:** \_\_\_\_\_ **Address:** \_\_\_\_\_

**TALENT RELEASE**

I hereby consent to the use of the image, voice, or both of my child, recorded in the video, photograph, or audio either in whole or in part by the STEM CENTER USA for educational, research, advertising and marketing purposes without compensation. The full name of your child will never be disclosed along with their image.

Name (Please print)	Parent/Guardian's Signature	Date

*"My son was so excited about attending the STEM Center (robotics program) and looks forward to attending another Robotics Program presented by STEM (Center USA). I believe program such as (robotics) are lacking in our society. Fundamental classes on robotics and engineering are essential for the future of our children and society. As a parent, I am thrilled that County Springs provided this wonderful opportunity to my son."*

-Darla (mother of a 5th grader at Country Springs, CVUSD)

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