the stars challenge

Coding and Robotics
Camp for Boys

KEY INFORMATION

June 26:
Application deadline

June 30:
Notification of Acceptance by e-mail no later than June 30

Class Dates:
July 16 to July 20

Tuition is $300 for the five-day course.

Apply on-line at www.starschallenge.org

Come Join Us

This program will be a hands on adventure into the worlds of computer science and robotics. You will be exposed to fundamental coding methods which you will use to control a VEX robot and an Arduino prototyping board. You need to be curious and interested in exploring. You do not need any previous coding experience.

This class will operate out of High Technology High School located in Lincroft, NJ. Mr. Hanas will be teaching the course assisted by his team of TAs who are not only HTHS students but also members of the school's competitive VEX teams and Robotics and Coding club.

Dates and Times

Classes will meet from 8:00 AM – 1:00 PM at HTHS on the campus of Brookdale Community College. Students must provide their own transportation and should bring their own snacks and lunch.

Pre-requisites

The program is open to boys who have completed their 6th or 7th grade by June, 2018. Students must have earned a "B" or better in the current year's science course.

What's going to Happen?

Most importantly, we want to encourage your passion and enjoyment in coding and robotics! The schedule for the course is as follows:

Day 1: You will be introduced to the MIT Scratch programming language, which, will be used to cover basic coding concepts such as variables, loops, lists and will even allow you to animate graphics!

Day 2 - Day 3: Introduction to the VEX Robotics System. During this two-day overview of robotics, you will use the coding concepts learned on Day 1 to control a VEX robot that you will build in class! You will program the robot using a language called RobotC and at the conclusion of this unit will engage in a mini-competition.

Day 4: You will learn how to control an Arduino prototyping board with coding. This will include the fundamentals of building a circuit with a breadboard and how to control various components such as diodes and sensors.

Day 5: This will be a capstone day where you will expand upon a topic of your choice (Scratch, VEX, Arduino) in order to develop a coding and/or robotics creation of your own!