

# CodeCraze Summer Camps July 2021

## AI and Coding with Zumi Robots

Learn about Artificial Intelligence and self-driving technology in our new Summer Camp!

New to CodeCraze, these little cars run on Raspberry Pi with an onboard camera, six sensors and a gyrometer. You program them in Python to learn as you learn! Your little bot learns to map and navigate. You learn how to use computer vision to enable self-driving just like a Tesla!

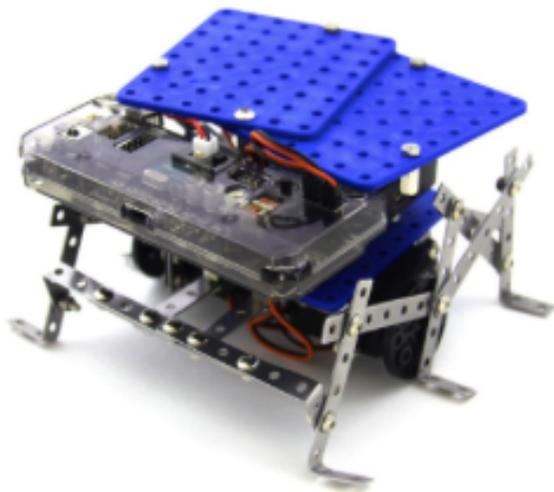
**Ages: 10 and above**

**Price: \$ 250**

**Times: July 5-8, 10:00 am-12:30 pm**

**July 19-22, 1:30 pm-4:00 pm**

**Benefits: Hands-on insight into robotics, coding, AI and self-driving cars**



## Robots with Arduino Circuit Boards

Build a rubber band shooter, a sumo wrestler, a clapping monkey or anything else you imagine with a real circuit board. Learn about circuitry, engineering and programming step by step as we build and code metal bots as unique and exciting as you are!

**Ages: 11 and above**

**Price: \$ 60**

**Times: July 9-10, 10:00 am-12:00 pm**

**Benefits: You will learn the link between elements of robotics: building (real metal robots), electronics (circuit board), and coding**

## Wonderbot Adventure

Ready to blast, grab and battle your way through a space adventure? We welcome you to learn block coding with Cue and our army of Wonderbots. You will master challenges asking you to draw, navigate, search and defend all while interacting with our sassy, suave little robots.

**Ages: Camp I: 6-8, Camp II: 8-10**

**Price: Camp I: \$ 100 Camp II: \$ 250**

**Times: Camp I: July 24-25, 9:00 am-11:00 am**

**Camp II: July 5-8, 1:30 pm-4:00 pm**

**Benefits: Great way to learn coding, not just for robotics, but also for acquiring the fundamental concepts for general coding**



## Vex IQ Basic Training

This amazing opportunity allows students to work together in teams to build, control, and program robots, and play with and against other robots in a game-based engineering challenge. We will be working with Vex IQ materials - a robotics platform developed by Carnegie Mellon University. Participants of the camp will have the chance to join the CodeCraze Team and enter regional competitions, meeting teams from across Illinois and the Midwest.

**Ages: 9 and above**

**Price: \$ 200**

**Times: July 10-11, 9:00 am-1:00 pm**

**Benefits: Participants will learn the fundamentals of building, mechanical engineering, and coding.**

### Vex IQ Game Strategy

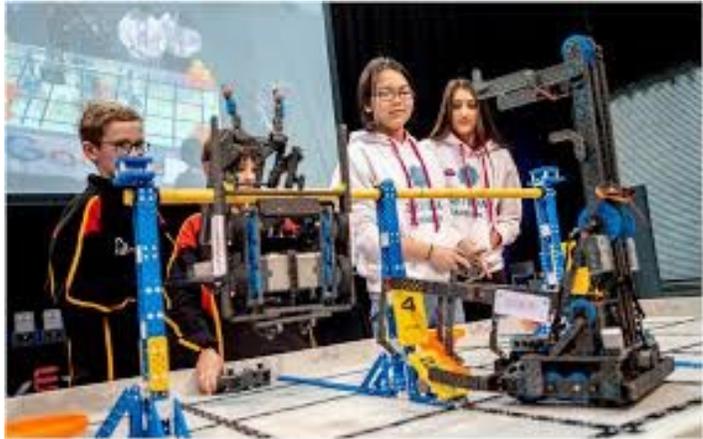
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**Ages: 9 and above**

**Price: \$ 200**

**Times: July 19-22, 10:00 am-12:00 pm**

**Benefits: You will learn robotics while focusing on strategies to maximize points earned in official challenges.**



### Roblox and Minecraft

Stop just playing Roblox and Minecraft; learn to program them and create your own games within. The skills to be acquired are invaluable not only for future tech/STEM careers but also for school subjects where analytic thinking is required.

**Ages: 9 and above**

**Price: \$ 250**

**Times: July 12-15, 10:00 am-12:30pm**

**July 12-15, 1:30 pm-4:00 pm**

**July 26-29, 10:00 am-12:30pm**

**July 26-29, 1:03 pm-4:00 pm**

**Benefits: The programming and 3D design skills acquired here are invaluable not only for future tech/STEM careers and school subjects where analytic thinking is required.**

## Build Your Website

Remove the mystery behind fantastic websites and learn the basics of creating them using HTML and CSS technologies.

**Ages: 9 and above**

**Price: \$ 100**

**Times: July 16-17, 10:00 am -12:00 pm**

**Benefits: Build your own landing page.**

**Expand your blog posts. Peak behind other sites to understand how they are built.**



## Intro to Coding (Scratch)

Come and learn to code your first computer game in 4 days!

Scratch is a coding language, that was developed by MIT university engineers. In Scratch, students do not have to type, but hold and drag colored blocks over the screen to see the graphic effects.

**Ages: 8 and above**

**Price: \$ 100**

**Times: July 12-15, 12:00 pm -1:00pm**

**Benefits: A globally proven way of teaching young children programming with instant gratification from quickly completed games and animations**

## Intro to Coding (Python)

YouTube, DropBox, Google, Instagram and Spotify were all written in Python; it is one of the most powerful and flexible programming languages of our time. In this camp, we will learn the basics of Python.

**Ages: 9 and above**

**Price: \$ 100**

**Times: July 26-29, 12:00 pm -1:00 pm**

**Benefits: You will be able to make games and animations, and be soon in a position to acquire other programming languages much easier.**

