

# STEAM SUMMER CAMP

5 DAY WORKSHOPS - 3HRS EACH DAY - (MON-FRI)  
IN-PERSON: LEARN 2 COURSES IN 1 WEEK!

JULY - AUG 2023



**WEEK 1**

(Mon-Fri)

**JULY 17-21**

**SELECT A 5-DAY WORKSHOP:**

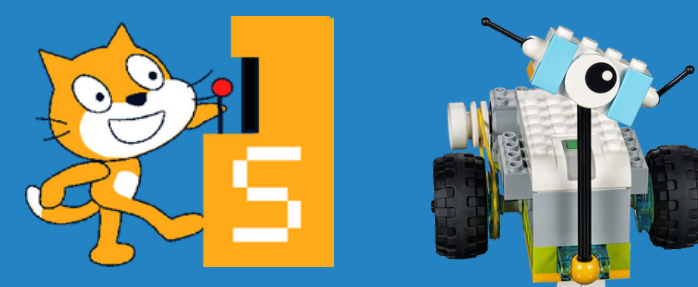
**REGISTER NOW**

## SCRATCH CODING + NANOBOT ROBOTICS

Learn to code with Scratch by MIT! Use colorful drag-and-drop coding blocks to create fun animations & classic arcade games. Also, have fun with our Nanobot Robotics LEGO™ based kits appropriate for hands-on building & programming projects.

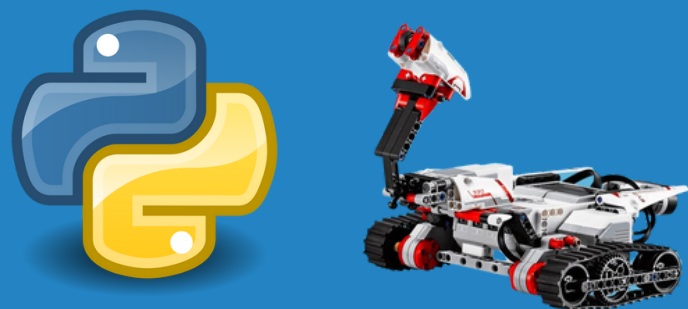
**AGES 5-10**

**10AM-1PM**



**AGES 10-15+**

**2PM-5PM**



## PYTHON CODING + EV3 ROBOTICS

Campers will use Turtle graphics & Tkinter to make fun graphics, art, & cool animations while learning Python language basics. Plus, they'll build EV3 LEGO™ robots & use programming blocks + sensors for motor & flow control! Solve challenging robotic problems!

**WEEK 2**

(Mon-Fri)

**JULY 24-28**

## MINECRAFT CODING + PAPER ENGINEERING

Get creative while learning coding with Minecraft Missions! Kids will use block coding, learn variables, conditionals, & more in a game-based setting. Also, from origami to pop-up cards to paper sculptures; this Paper Engr. workshop combines art, physics, & engineering to create miniature marvels of moving paper!

**AGES 5-10**

**10AM-1PM**



**AGES 10-15+**

**2PM-5PM**



## PHOTOSHOP + 3D PRINTING & CAD-SKETCHUP

Participants will learn basic Photoshop tools to create art. Campers will manipulate images &/or face swap photos, using vivid colors, textures + more! Also, they'll dive into SketchUp to create simple & fun CAD projects. Express your imagination into plastic 3D reality!

**WEEK 3**

(Mon-Fri)

**JULY 31 - AUG 4**

## NANOBOT ROBOTICS + SCRATCH CODING

In Nanobot Robotics, have a blast using motors, gears, pulleys, motion sensors, & block coding to create fun jungle themed robots! Plus, learn to code using Scratch's easy drag-&-drop programming & create your own games + animations with fun themes like Minecraft.

**AGES 5-10**

**10AM-1PM**



**AGES 10-15+**

**2PM-5PM**



## EV3 ROBOTICS + PYTHON CODING

Build & program EV3 robots with fun themes like Star Wars & space. Campers will learn robotic elements, sensors, gear trains, logical thinking, engineering design, coding, testing, & performance. Python Coding is a powerful, expressive programming language that's easy to learn & fun to use. Campers will also build cool graphics & games!

**WEEK 4**

(Mon-Fri)

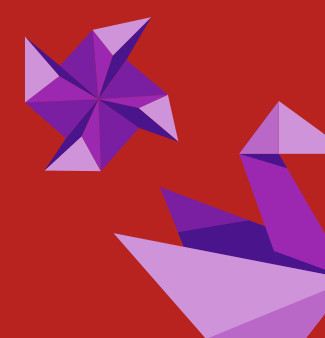
**AUG 7-11**

## PAPER ENGINEERING + MINECRAFT CODING

In Paper Engr. we'll combine physics, engr. & art to create mini moving paper wonders. Learn origami, pop-up cards, & paper sculpture techniques! Plus, in a game-based learning environment, kids will use block coding, learn variables, conditionals, & more while getting creative in Minecraft Missions Coding.

**AGES 5-10**

**10AM-1PM**



**AGES 10-15+**

**2PM-5PM**



## 3D PRINTING & CAD-SKETCHUP + PHOTOSHOP

Campers will learn to use SketchUp to create 3D Printed CAD projects, such as mini rockets, mugs, or castles. Plus, learn how to use various tools-techniques in Photoshop, such as image manipulation, vibrant scene creation, face swapping, colour/texture incorporation + more!

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STEAM WORKS STUDIO CANADA IN PARTNERSHIP WITH MINDSHARE WORKSPACE



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