SUMMER CAMP 2018

STEAM Works Studio - Bridgewater NJ

bridgewater@steamworksstudio.com

Kids learn to create their own games

& fun stories & animations with

SCRATCH using "drag and drop

programming". SCRATCH, by MIT,

helps young kids to learn to think

creatively, reason systematically, &

work collaboratively. Color coded,

programming, as well as sounds,

backdrop images and drawings are

intuitive drag & drop block

used. Get them to code!

(908) 864 7824



Click here to Register Grade 1-2							
	JULY 16 - JULY 20	JULY 23 - JULY 27	JULY 30 - AUG 3	AUG 6 - AUG 10			
	MILO THE ENGINEER	SILLY CIRCUITS	WILD LIFE SAFARI	FLYING MACHINES			
	ROBOTICS	ELECTRONICS	ROBOTICS	ENGINEERING			
9-12p Morning Session							
	Nurture curiosity, science & engineering skills with a wonderful introduction to ROBOTICS with LEGO Bricks, Tilt and Motion Sensors, Motors and gears. MILO pretends to be a super engineer lifting tables, dragging and cleaning up spaces. Block coding is super easy and fun while developing creative & logical problem solving skills!	Learn about Electronics while doing fun crafts. Add LED lights, Motors, Sound to your paper circuits ex Greeting Cards, Paper crafts, Origami projects. Explore the fun world of electronics! Our cool silly circuits with Lights, Sound and movement are bound to nurture the campers interest in basic Electronics!	controlling them using block coding.	Make paper planes and rocket craft, colorful straw rockets, fast moving balloon powered rockets, bottle airplanes, rubberband gliders & your own custom parachutes! Lots of educational activities for our Campful of aeronautical engineers! A little about history of flight and fun facts in the world of airplanes and rockets!			
LUNCH (12-1pm) + INDOOR GAMES + STRETCHING EXERCISES							
	SCRATCH GAMES	SPACE BOTS	CRAZY CHEMISTRY	ART BOTS			
	PROGRAMMING	ROBOTICS	CHEMISTRY	ROBOTICS			
on Session	01:92.10						

A Robotics program with a SPACE

theme! Think STAR WARS ™ and

Lunar Landers & Mars Rovers! Have a

blast using motors, gears, pulleys &

motion sensors to create fun space

themed builds! Campers will learn

create motion! Problem solving &

logical thinking with block coding!

about simple machines like gears to

A LEGO Robotics program with ART &

MUSIC Themes! Spirograph Builder,

MILO the Drawing Bot! Music Maker,

Drum Master. Have a blast using

motors, gears, pulleys & motion

builds! Campers will learn about

sensors to create fun space themed

simple machines like gears to create

motion! Problem solving & logical

thinking with block coding!

Practical Chemistry is lots of fun!

Learn about the chemistry that you

encounter every day in your house.

chemical reactions & test different

liquids, salt, vinegar. Create your own

chromatography applied Tshirt to take

home. What is Elctrolysis? Make and

Experiment hands-on with real

eat exothermic ice cream!

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music, game & animation while

introduction to coding!

learning Python language basics. A fun

Grade 3-5



game? Can you make a magic wand that creates colorful magic circles in

SCRATCH and more.

SCRATCH using the Motion Sensor and Tilt sensor? Control LED lights using

with art or music in mind. Learn about

controlling your robots while building

light, color, touch sensors and

fun robots!

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Click here to Register Grade 6-8							
	JULY 16 - JULY 20	JULY 23 - JULY 27	JULY 30 - AUG 3	AUG 6 - AUG 10			
9-12p Morning Session	VEX ROBOTICS	JAVA FUNDAMENTALS	BUILDING DIY DRONES	PYTHON			
	ROBOTICS	PROGRAMMING	CAD & PRINTING	PROGRAMMING			
	Build a fully autonomous robot using the included programmable	A Jumpstart to Coding! Begin with a quick programming orientation using	Learn principles of flight, what makes things go up against the air & why,	Python is a powerful, expressive programming language that's easy to			
.2p	VEX ARM® Cortex® based	the Eclipse environment. Campers will	1	learn and fun to use. We build cool			
9-1	Microcontroller & various sensor types. Students learn programming	learn to program using best practices and understand what makes JAVA	& electronics. Build a load bearing fully functional Quad Copter which	Graphics & Games during the course. We use IDLE as a development tool as			
	skills such as Robot-C, Robot Design	unique and so powerful. JVM, Objects	can fly using remote control & as an	well as common Libraries that help			
	and engineering process. Students can get ready and join teams to participate in VEX competitions organized widely across the nation	& Classes, Data Types, Arrays, Decision Structures, File I/O & Graphics are introduced!	add-on you can make your copter take aerial photos. Take your drone home!	with Graphics and Game building like tkinter and pygame to explore the power of Python language!			
	LUNCH (12-1pm) + INDOOR GAMES + STRETCHING EXERCISES						
ternoon Session	ADVANCED 3D PRINTING	WEARABLE ELECTRONICS	BLENDER ANIMATION	ELECTRONICS W SOLDERING			
	CAD & PRINTING	ELECTRONICS	ANIMATION	ELECTRONICS			
	ADVANCED 3D PRINTING		Blender				
ftern	Campers will explore Coding/Program based methods of generating 3D	What if your clothing could change color based on mood or respond to	Blender is a free and open source 3D creation suite. It supports the entirety	Learning how to solder is quite easy and, with a little practice, you will be			

Printed projects. They will also

with a LED torch light.

explore two different advanced 3D

printed projects that use electronic

components. Ex. A water cooled mini

and a Hand Crank electricity generator

of the 3D pipeline —modeling, rigging, soldering your own electronics circuits.

animation, simulation, rendering,

Thanks to high quality rigging and

animation tools, Blender is used for

numerous short films, ads, TV series

compositing & motion tracking.

and feature films now.

your racing heartbeat? Welcome to

dynamically shift your height, jackets

your project partner across the room.

that display when the next bus is

the world of shoes that can

Build your own Wearable!

pump that can shoot high speed water coming, and neckties that can nudge