Exciting Robotics Club

Imagine That! and **FUTURE TECH**

Dates: **Wednesday 9/5– 12/5** **Friday 9/7-12/14**	**Fee (Early/Regular)** **Early registration by: 8/17** $324/$344	**Time:** **Wednesday: 4:00-5:30** **Friday: 3:00-4:30**

<u>Robotics Club</u>: Holy Spirit   12 week sessions

Amazing Program for our Minecraft and Robotics enthusiast! Our hour and a half program allows students to really explore building and programming. Maximum number of student is 10.

Grades 2-3 Wednesday Minecrafting and NXT Robotics

No Class Days: October 17, November 21

Grades 4-6 Friday Minecraft Programming and EV3 Robotics

No Class Days: October 5, November 16 and 23

Register Now
Split Payment Available

Imagine That! and Future Tech

www.ImagineThatFun.com

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Robotics Club Class Details

Robotics Club Grades 2-3 Minecrafting Circuit and Cities and NXT Robots
Read full details here.

Minecraft: We will introduce Redstone in Minecraft. Redstone can be used to:
Make simple circuits, such as automatic doors and light switches.
Construct complex devices such as trap doors, roller coaster and automatic farms
Students will learn about switches, the binary numeral system, the difference between series and parallel circuits, make upstairs/downstairs circuits and more, all while using problem solving skills and group cooperation.
On the last day, students will use their new knowledge of binary and logic gates to create their own basic but functional calculators in Minecraft!

Robotics: Lego ® MINDSTORMS ® NXT's will be offered so that students have a great time building and programming just for the love of it! Your student will be asked to complete a short build specific to a challenge. Each challenge can be completed within a certain time frame allowing at least 2 challenges per session. Modifications to the robots will be quick and easy using the Express bot. Depending on time constraints, students will modify the Express bot and complete 8-12 challenges. Your student will come away from this session with an in depth knowledge of how to simplify a program using the information on the brick to adjust the robot, eliminating much of the trial and error normally experienced with basic programming. Class will also be offered in a way that preps any student who would like to pursue First Lego League.

Robotics Club Grades 4-6 Minecraft Programming and EV3 Robots
Read full details here.

Learn Programming With MineCraft and ComputerCraft!

In this class, students will learn programming skills using ComputerCraft in which you can add little robots and computers to the world of MineCraft. These can be programmed using the LUA scripting language. Students will learn about variables, functions, conditional statements, loops, and more, as well as improving their typing skills in a fun, familiar environment where the results of their work are immediately visible and very rewarding. Students will conceptualize, write, and debug their very own program using new skills that remain useful outside of the MineCraft environment. The LUA language is a fully featured and freely available programming language that can be used to write applications and games, and is a perfect springboard for learning more complex languages like Java, C++, and others.

LEGO® MINDSTORMS® EV3
For our older students, we offer 3 Robots for Fall session! LEGO MINDSTORMS EV3's will be offered so that students have a great time building and programming robots! Using the Droidbot, students will program and add to the bot according to each challenge round. Challenges will test time, rotations, and degrees. Students will learn the difference between spin and pivot and learn to read port views to name a few.   Your student will gain serious, in depth smarts on how to shorten challenge times successfully in this session. At least 8-12 robot modifications and challenges should be completed! Class will also be offered in a way that preps any student who would like to pursue First Lego League.