STEM Robotics and Programming Resources

Interested in Robotics and or programming? Try out some of these sources to enhance your knowledge or just for fun!

* First Robotics Competitions
  + FLL- FLL stands for First Lego League. In FLL a team of five to ten students, age nine to fourteen, build a robot using Lego parts to complete a specific yearly challenge. Find out more about FLL at: http://www.usfirst.org/roboticsprograms/fll
  + FTC- FTC stands for First Tech Challenge. In FTC a team consists of three to ten students, who have started high school, build a robot using Lego, Tetrix, and homemade parts to solve a specific challenge every year. Find out more about FTC on the web at: http://www.usfirst.org/roboticsprograms/ftc
* Want to learn programming?
  + Free Drag and Drop programming
    - **Scratch-** Scratch isa good program for beginner programmers. It has a two-dimensional plane where you can place and create drawings and then use simple drag and drop programming to make your creations come to life! You can find scratch at: http://scratch.mit.edu/
    - **Alice-** Alice is similar to Scratch, but it is a little more complex. Alice has a three dimensional plane where you can create three dimensional images and use drag and drop programming to have them do anything you want! You can find Alice at: http://www.alice.org/index.php
  + Free general programming tutorials
    - **Code.org-** Code.org has many good links and information regarding all types of programming in the tabs near the top of the page. Check it out at: http://code.org/learn/codehs



“[Believe and act as if it were impossible to fail.](http://thinkexist.com/quotation/believe_and_act_as_if_it_were_impossible_to_fail/13012.html)” – Charles F. Kettering

“For an optimist the glass is half full, for a pessimist it’s half empty, and for an engineer is twice bigger than necessary.” - Unknown

“It is not a disgrace to fail. Failing is one of the greatest arts in the world.” - Charles F. Kettering