

20200528 St from KMUG LT proposes additional resources, aiming at

Exploration, Evaluation and – probably - Recommendation

GENERAL WEBSITES

Institute of Electrical and Electronics Engineers Robotics Newsletter

<http://spectrum.ieee.org/static/newsletters-signup>

Lego Engineering

www.legoengineering.com/

NASA Robotics

<http://robotics.nasa.gov>

National Robotics Week

www.nationalroboticsweek.org/index.php

PBS Design Squad

<http://pbskids.org/designsquad>

Programming

Hour of Code

<http://code.org/>

Raspberry Pi Programming

www.raspberrypi.org/

RobotC Programming

www.robotc.net/

Scratch Programming

<https://scratch.mit.edu/>

Online community for Scratch educators

<http://scratched.gse.harvard.edu/>

ROBOTICS KITS

Cublets Robotics

www.modrobotics.com/education/#lesson-plans

TI-83 calculator robots

www.smallrobot.com/robot-kit.html

SmartBot phone robot kit

www.overdriverobotics.com/

PROGRAMMING-RELATED IPAD APPS

Daisy the Dinosaur

www.daisythedinosaur.com/

Hopscotch

<https://www.gethopscotch.com/>

Cargo-Bot

<http://twolivesleft.com/CargoBot/>

ROBOTICS COMPETITIONS

Best Robotics, Inc.

<http://best.eng.auburn.edu/>

Bot Ball

www.botball.org/

FIRST LEGO League

www.firstlegoleague.org/

MATE Underwater Robotics

<http://www.marinetech.org/rov-competition/>

Robofest

<http://www.robofest.net/>

US First Robotics

<http://www.usfirst.org/>

Vex Robotics Competition

<http://www.vexrobotics.com/competition/>

This video shows how to make a simple vacuum effector using a balloon, duct tape, coffee grounds and a vacuum cleaner, and also describes how vacuum grippers work:

<https://www.youtube.com/watch?v=3OjhoVuAQkQ>

<https://www.youtube.com/watch?v=Hb6PajUGXFg>

These videos demonstrate how traditional vacuum effectors work:

<https://www.youtube.com/watch?v=1F9RT8OjHWE>

Here are some good examples of mechanical grippers:

<https://www.youtube.com/watch?v=u4ZScJsaepg>

<https://www.youtube.com/watch?v=EcTL7Hig8h4>

<https://www.youtube.com/watch?v=4MQmlvzE0i8>

And here are some examples of magnetic effectors:

<https://www.youtube.com/watch?v=Z8t59j9zjjc>

<https://www.youtube.com/watch?v=hpyzfm2r-uU>