

CUTTING-EDGE SCIENCE AND TECHNOLOGY COURSES

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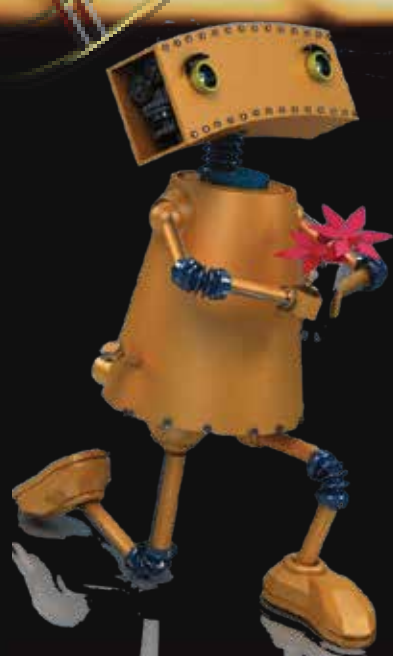
Canton Public Library
786 WASHINGTON STREET, CANTON, MASSACHUSETTS

Mini STEM Camp

Robotics- Make Your Own Musical Instruments

Program description:

MIDI (Musical Instrument Digital Interface) controllers are electronic instruments programmed to produce any sound you can imagine. In this course students will design, build and program MIDI controllers using an Arduino board and SketchUp. They will model the instruments in 3D and then 3D print them granting them complete control in tailoring their instrument to their aesthetic and functional goals. Circuits, digital output (in the form of switches, pressure sensitive buttons, dials, and midi cables) and programming are skills students will acquire in our course. The MIDI instruments support many open source music production programs and we will demonstrate their usage in the popular Digital Audio Workstation - Fruity Loops. The transition to any software interface of choice is easy.



DATES: April 17–19, 2018
Tuesday, Wednesday, Thursday
TIMES: 2:00–4:00 p.m.
LOCATION: Canton Library
786 Washington Street, Canton, Massachusetts
SKILLS: SketchUp, 3D printing, programming, Fruity Loops
AGE: 3rd–8th grades
COSTS: Canton residents \$45; Non-residents \$55

Please call Canton Library for registration at 781-821-5027 Ext. 4116
or email Matt Amory at mamory@ocln.org