

**Cleveland Mini
Maker Faire®**

2015

**CLEVELAND
MINI MAKER FAIRE**

Produced by:

**CLEVELAND
PUBLIC LIBRARY
& INGENUITY**

FREE!

June 6, 2015 • 10:00 a.m. - 4:00 p.m.

Cleveland Public Library, 325 Superior Ave., Downtown Cleveland

www.MAKERFAIRECLEVELAND.com



One Maker Faire, Two Buildings

H marks the spot for fun, hands-on activities happening throughout the day!

SkyClub Division of Sound

Louis Stokes Wing, 10th floor

Scuba Divine Day Club and Sonic Experience **H**
DJ Red-I Old School Beats
Volt AxXe Sound Synthesis by Solder Junkies
Ignite Public Interaction Hub

Vendors Village

Louis Stokes Wing, 4th floor

Dungeon Studios Prototyping
Beeswax Vessels by Helen von Schneider **H**
Robagia Hardware
Neither Here Nor There: Multimedia Dolls and
Basic Sculpting Workshop by Clara Manfredi **H**
Doing Things Differently Gallery
Soulcraft Woodshop
Madknits Handmade Monsters **H**
Bright Green Gift Store
Handmade Books and Bookbinding by Colleen Fitzpatrick **H**
Glowie Monsters
Meowville Live Screen-Printing
Clevemandu and Balloon Twisting by Flower Clown
10:00 a.m. – 1:00 p.m.

Programmer's Paradise

Louis Stokes Wing, 3rd floor

Solar Lanterns Workshop by Steven Gutierrez
10:00 a.m. – 12:00 p.m. and 1:00 p.m. – 3:00 p.m. H
Tiny Circuits
Paperclip Computer by Wayne Verish
Make on the Lake DIYers Meetup **H**
Cleveland Digital Publishing Users Group
ITT Technical Institute **H**
Ohio 3D Stereoscopic Photography **H**
EveryKey
HER Ideas in Motion **H**

City of the Future

Louis Stokes Wing, 2nd floor

Touch the Art and Play Your Heart Out a dynamic duo of
interactive installations by George Berlin **H**
National Day of Civic Hacking: Workshops and
Activities by Open Cleveland **H**
Action Committee for Arts and Culture
Collinwood Painted Rain Barrel Project

Blender Bike! By Bike Cleveland
Magical Science by Lorain County Community College **H**
Cleveland Game Developers **H**
RecycleBots DIY Workshop by **H**

Inventor's Emporium

Louis Stokes Wing, 1st Floor

Welcome, Registration, and Northeast Ohio Makers and
Innovators Network Database
Cleveland Health & Wellness Hackathon and Cleveland &
Cuyahoga Health Resource
Lumaniti Wearable Technology for the Future! **H**
Tri-C Department of 3D Digital Design and
Manufacturing Technology
Pico for 3D Printing by B3 Innovations
Akron Global Polymer Academy by the University of Akron **H**
NASA Glenn Research Center
EMG Muscle Control for Fun! By Kiteweather Robotics **H**
Case Western Reserve University think[box] and
Learn to Solder: Muscle Meter! **H**

Tinkerer's Toolshed

Louis Stokes Wing, Lower Level

Central Ohio RepRap and MakerBot Users Group
Protovoltaics Pick and Place Machine
Street Legal: Saint Edward's and
Friends' Competition Robotics Team **H**
Arduino Controlled Christmas Lights by Tom Hammond
Time Warner: A Generous Cleveland Mini Maker Faire Sponsor
Cleveland Public Library's TechCentral & MakerSpace in
partnership with Great Lakes Science Center **H**



Louis Stokes Wing Auditorium

Yes . . . AND! MC² Student Improv Team Workshop • **1:00 p.m.**
All Day Workshops & Kazoo Fabrication Machine by the
Makers Alliance **H**

Otherworldly Underground

Lower Level Passageway

ElectroAcoustic by Jonathan Sokol
Windchimes and Harmonograph Drawing Machine
by Brad Civic **H**
Hearing the Shape of the Universe by John Dulin
F.E.A.R. Cleveland by Mark Chupp and Negative Space Gallery



Eastman Reading Garden

Midget King Cars

GeoNest Ball Chair by Brad Civic

Step Right Up! by Entertainment Enterprises and Friends **H**

The Fighting Unicorns: Hathaway Brown Competition Robotics Team **H**

Music in the Garden featuring Yiddishe Cup Klezmer Band.

East 6th Street

All Power Solutions Sustainable Wood-Powered Electricity Generation

LoveCircus on the Wowza Bus **H**

Maker's Circus

Main Building, 1st floor

Dr. U.R. Awesome, Bubbleologist

Say Cheese! Photobooth by RGI International, with the artwork of Dairoll Medrano **H**

Interactive Media Design by Dairoll Medrano **H**

Sokol Aerial Circus: Against Gravity

11:00 a.m. • 12:30 p.m. • 2:00 p.m.

Juggable Offense Synths and Cosmic Sounds

Time Travel and Other Feats by Ryan the Remarkable

10:30 a.m. • 12:00 p.m. • 1:30 p.m. • 3:00 p.m.

Necessity is the Mother of Invention, A Mechanical Thank You by Our Sponsors and Ed Morra

Cirque Ingenieux

Pinch and Squeal, Villagers of the Voix de Ville

Fire + Light Performing Arts

Hello Hoops by Faith McFluff

The Art and Craft of Juggling

Upcycle Parts Shop Activity Zone **H**

Viva Dance Studio Hourly All-Style Workshops

11:00 a.m. • 12:00 p.m. • 1:00 p.m. • 2:00 p.m. • 3:00 p.m.

Education Station

Main Building, 2nd Floor

Chaotron Kinetic Sculpture by Wendell Wiggins

HexConnect by Cleveland based Game Designer Jared Bendis **H**

Cocoro Interlocking Play System by Norio Kids **H**

Finder's Quest by STEAMhat Productions **H**

We Can Code It Workshops: Engineer a Rollercoaster in Minecraft

Workshops at 10:30 a.m. • 12:30 p.m. and 2:30 p.m.

First come, first-served (1.5 hours)

Educational Transformation by Soulcraft CLE

Handmade Woodworking by Soulcraft CLE

Builder's XChange

WikiSeats and Teaching Humans by Sean Wheeler and Design Lab High School

Lake Erie Boat Float by the Mayor's Office of Sustainability **H**

Rock Your World with STEAM Highlights by Cleveland Metropolitan School District

In the Doghouse! by Hathaway Brown **H**

Maestro's Mezzanine

Main Building, 3rd floor

Chardon Polka Band • **10:00 a.m. – 1:30 p.m.**

Erie Heights Brass Band • **1:30 p.m. – 4:00 p.m.**

And...visit the NEW Cleveland Digital Public Library! **H**



Adventure Attic

Main Building, 4th Floor

Children's Museum of Cleveland Paper Airplane Launch **H**

Decorative Ropework by Mark Pape **H**

Anansi Art Collective

Doing Things Differently Gallery All-Day Workshops **H**

Experiments in Memory Digital Art by Thomas Zimmerman

Illusions by Ray Raymond • **11:00 a.m. and 2:00 p.m.**

Guide to Kulchur Community Kitchen: Zines, Storytime and More! **H**

Cleveland Ballet Youth • **3:00 p.m. – 5:00 p.m.**

Continued on back...

Featured Maker Workshops

All Maker Workshops are FREE and open to the public.

Please remember that not all workshops are designed for children.

Check with the Maker to be sure. Seating is limited. Space is offered on a first-come, first-served basis.

Solar Lanterns Workshop by Steven Gutierrez

Programmer's Paradise, Louis Stokes Wing, 3rd floor

10:00 a.m. – 4:00 p.m.

Come and learn about how solar panels work and make a solar powered project start-to-finish with your own solar lantern that will charge during the day and then light up at night (or whenever darkness falls) automatically. Participants will learn minor soldering and create a lantern with recycled materials. (30 min-1 hr activity)

National Day of Civic Hacking: Workshops and Activities by Open Cleveland

City of the Future, Louis Stokes Wing, 2nd floor

10:00 a.m. – 4:00 p.m.

June 6, 2015 is the National Day of Civic Hacking. Open Cleveland, Cleveland's Code for America brigade introduces you to the idea of civic hacking. Join our hands-on civic hacking projects for both kids and adults, like map roulette (<http://maproulette.org/>). Or, sit down at a computer and edit maps, create graphics, discover and explore existing civic hacking apps and learn how you can get involved and influence our community positively by contributing your skills.

Case Western Reserve University think[box] and Learn to Solder: Muscle Meter!

Inventor's Emporium, Louis Stokes Wing, 1st floor

10:00 a.m. – 4:00 p.m.

think[box], the center for innovation and tinkering at Case Western Reserve University, returns to the mini-maker faire again this year with our "EMG" Learn to Solder kits. EMG stands for Electromyography, which is the science of measuring muscle neuron activity. You can call it a "muscle sensor." Participants will learn to solder as they build their own "muscle sensor" which they can rubber-band to their arm to see LED lights glow as they flex their muscles. Sponsored by Bird Technologies, The Leonard Gelfand STEM Center at CWRU, Blackstone Launchpad at CWRU, The Burton D. Morgan Foundation, and Case Western Reserve University.

RecycleBots DIY Workshop by Doo-Sung Yoo and Andrew Frueh

City of the Future, Louis Stokes Wing, 2nd floor

10:00 a.m. – 4:00 p.m.

Kids (7 and up) and their parents will create a toy robot from recycled materials from water bottles to cereal boxes, combined with common low-tech electronic parts like motors and batteries, in order to about the fusion of art and science, environmental awareness, and recycling. (1 to 1.5 hour workshop/activity)

Makers Alliance Workshops

Louis Stokes Wing Auditorium

10:00 a.m. – 4:00 p.m.

Ongoing workshops with the Makers Alliance will feature arduinos, soldering, a custom PVC-chopping Kazoo-manufacturing robot, and more!

We Can Code It Workshops: Engineer a Rollercoaster in Minecraft

Education Station, Main Building, 2nd floor

10:30 a.m. • 12:30 p.m. • 2:30 p.m.

Create a thrill ride Steve will never forget! Flip those Creepers upside down! Kids ages 8 through 14 learn about electrical engineering and computational thinking concepts while building Rollercoaster in Minecraft using Redstone. Based on the popular Minecraft Amusement Park week-long summer camp series by We Can Code IT, and our Minecraft Amusement Park book to be published in August 2015, kids love creating their own automated rollercoaster! Read about our camps and workshops at WeCanCodeIT.org. (1.5 hour workshop/activity)

Viva Dance Studio Workshops

Maker's Circus, Main Building, 1st floor

11:00 a.m. • 12:00 p.m • 1:00 p.m. • 2:00 p.m. • 3:00 p.m.

Workshops will explore a variety of dance styles throughout the day, from Salsa to Swing! 20 min.

MC^2 Student Improv Team

Louis Stokes Wing Auditorium

1:00 p.m.

Join the MC^2 Student Improv Team for a comic, improvisational theater demonstration and workshop: Yes . . . AND! a lesson in always saying yes and making more!