

7TH ANNUAL

# East Bay Mini Maker Faire®

SUNDAY, OCTOBER 23, 2016



make • build • hack • play • sew • tinker • invent • connect • craft • solder • ride • DIY • think • learn

**PROUDLY PRESENTED BY PARK DAY SCHOOL**

We are grateful for the generous support of

Google

PROJECT EMBER

**Make:**  
makezine.com

blue  of california

 **PARK DAY SCHOOL**

 **Bank of Marin**

The East Bay Mini Maker Faire is also brought to you by these generous sponsors:  
UC Berkeley, TechShop, Trackers Earth, Modarri, Cubit, 510 Families, AE Machines, Brushstrokes, Studio One, Flax Art & Design, PlayWell, Connections Academy, Tinkering Labs, Boot & Shoe, Whole Foods Market, Acme Bread, Beauty's Bagel Shop, Hogs Apothecary, Revolution Foods, and Semifreddies.

## SCHEDULE

### MAGNOLIA GREAT ROOM

### MAKER SKILLZ ROOM

### HOMESTEADER STAGE

### ROCK THE BIKE MUSIC STAGE

### STUDIO ONE CERAMICS ROOM

### MAGICAL PURPLE PUPPET STAGE

Magnolia Building

Magnolia Building

The Grove

The Field

Studio One Building

Homesteader

**11:00** Behind MegaBots: The USA vs Japan Giant Robot Duel  
Gut Cavalcanti, Matt Oehrlein, Lisa Winter

**12:00** Free to Make  
Dale Dougherty

**1:00** What is the Latest in Biohacking & Citizen Science

**2:00** Robotic Fashion and Intuitive Interfaces  
Anouk Wipprecht

**3:00** Everyday Making: Building Spaces and Creating Space for Creativity  
Samantha Malone Cook

**4:00** Creating Monumental Art: The Science of Awe  
Jessica Hobbs, Elizabeth Scarborough, Zach Coffin

Electronics & Microcontrollers! An Introduction

The MAGIC of robotics  
The Metal Magicians

Arduino Crash Course  
Donald Bell

Make It Glow - Creative Simple Electronics  
Emily Collier

MinicraftEDU-Server Master  
Byrce Bonde

10 Free Apps Every Maker Should Have  
Donald Bell

Smart Aquaponics - Data Visualization  
Eric Maurdu

Four Barrel Coffee Cupping  
Brian Keefe

DIY personal care products  
EarthMojo

Learn to make a wooden spoon  
Michael Bray

Make your own Healthy Immune System  
Green Your Garden with Greywater  
Natalie Kliner

Urban Permaculture Design and Practice  
Jeremy Watts

Learn to Brew Your Own Kombucha  
Lila Volkas

Apple Streudel with Jenny Raven  
Jenny Raven

Mixology 101: The Cocktail  
Formula  
Jared Hirsch

Wild Fermentation with Phat Beet  
Youth Pickle Co.

Magical Nathaniel  
Nathaniel Segal

Cosmic Rain  
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Culture Shock Oakland  
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## STUDIO ONE LAWN

Virtual reality and drones  
Sharky-go-round/Ghost Shark  
The Flying Flea Circus  
Make your own Rocket Booth

## STUDIO ONE

Black Hat Cooperative VR  
The CoSew  
Meaning Maker Studio  
Girls Make Games  
Lighthouse Creativity Lab  
Curiosity Hacked  
STEPMANIA  
TAPIGAMI  
Swap-o-Rama-Rama  
Paper Airplane World Record  
Antweight Bot Hockey  
The Metal Magicians  
Scotbotics FTC Team 3873  
BattleBots - Stinger  
The Killer Bee

Mega Tendo  
RoboGames - Original Sin  
Ragin Scotsman  
kitLAB  
Virtual reality and drones  
Sharky-go-round/Ghost Shark  
The Flying Flea Circus  
Make your own Rocket Booth  
Wheeled Robot Shows  
Distance-Sensor Steering Algorithms  
BayLUG Club LEGO Display  
Emergence  
Nyan Skirt - Programmable  
LED skirt and wearable  
arduino platform  
BioLumenOids  
The Sense of Things  
Vortex  
Follow  
Photons  
3D printed engines  
and transmission  
Ace Monster Toys Hackerspace  
East Bay Amateur Radio Club  
Sculpting the head in clay  
Tilt-A-Hurl  
TURFinc  
Hog's Apothecary (beer tent)

## CRAFTER'S ALLEY

Rasterstache  
From Trash to Treasure:  
Easy Peasy Recycled Jewelry Kits  
uniqueFITZ  
Reviving History  
through Wearable Art  
A Peace Chain  
Art of FRE - David Macias  
Bird vs. Bird Designs  
Woolables  
The Corky Birdhouse  
Silver & Bone Jewelry  
by Kasey Jorgensen  
Origami for All!

Leah Staley  
Learn How To Make Glass  
Beads  
ReformLeague  
Tess Young Jewelry  
Benicia Makerspace Laser  
Maze

## FAB ZONE

Young Sparks Foundation  
The Crucible  
NIMBY  
TechShop  
Box City  
Rocket Glass Works  
Mobile Studio

## THE NERD NEST

Mechanical Camera  
Chemistry of Latent  
Fingerprint Detection  
Magenta  
Nuclear Energy and Innovation  
AxiDraw by Evil Mad Scientist  
Manylabs  
Circuit Classics  
NanoBeam  
Squishy Circuits - UC  
Berkeley  
Electrical Engineering  
Graduate Student Outreach  
CritterBots Paper  
Circuit Workshop  
Jacobs Institute for  
Design Innovation,  
UC Berkeley  
CalSol - UC Berkeley  
Solar Vehicle  
Piper  
Individualized  
Assistive Devices

## GRANDMA'S ATTIC

Rogue Making with  
Tenaya Hurst  
Japan PachiMon  
Tech Association  
AE Machines  
DIY Screen Printing with  
The Grease Diner  
Vortical Fire Zoetrope  
Hand Sewing Basics  
Tinkering Labs  
Pufferfish Swords  
Barnes and Noble  
Can Cells Learn?  
The Ten Minute Date

## MAKER SAFARI

Spring Hill Academy of  
Petuluma  
Gridbeam  
Learn to Solder Kits  
Exploratorium Tinkering Studio

Bentley School Makers  
East Bay School for Boys  
Scientific Adventures for Girls  
Add it Up and Dig In: 3D  
Printing and CNC Projects  
in Middle School  
Girls Garage  
East Oakland Makers-  
Castlemont High School  
Laney College  
Oakland Public Library-  
Make a Library Card  
Magical Nathaniel  
The Wobbly Toggle Puppet  
Show  
Toy Hack  
Bubble Lab  
The Nerdy Derby  
Metal Stamping- Make and  
Take a Pendant!  
Learn to solder  
West Oakland Skimmers

## THE FIELD

RallyBowl  
Rock the bike Pedal  
Powered Stage  
The Bicycle Ferris Wheel  
The BooLander: Tandem Tall  
Bike  
Cosmic Rain  
New Zombies  
Earth Amplified  
Soul Graffiti  
Culture Shock Oakland  
FLIGHT Next Generation  
Flight Simulation

Next generation Solar  
Collector:  
High Temperature Hybrid

## HOMESTEADER

Oakland Symphony  
Instrument Petting Zoo  
DIY: Brew Your Own Kombucha!  
Bee Happy Solutions  
Oakland and Emeryville 4H  
Herbs + Oils Bath  
Trackers Earth Bay Area  
The Green Cube  
Outdoor Afro  
Green Your Garden  
with Greywater  
Alameda County  
Beekeepers Association  
Leatherwork is All Play  
Thingamajigs Instrument  
Building  
Smokey Flowers: Make Your  
Own Herbal Blends  
Woodshed Plant Design  
Henna Tattoos  
Marko Apparatus

## KINETIC DRIVE

Art Crawler  
Camp Tippy  
Girl Scout Samoa Cookie Car  
Farfalle Gustose  
AXbuilt: Creative Structures

and Palatial Estates  
wandering guitar teacher -  
learn electric guitar  
in 1 minute  
Maria del Camino  
"Nasha Lodka" (Art Car)

## MAGNOLIA CIRCLE

Raptor Mom: Fabric Crafts  
With Fun Factor  
Design & Drive Modarri  
Building System  
Superconductors are Super-  
cool  
Developing Products:  
the 'Because We Can' way  
RIVEROPOLIS: Social Play,  
Science and Design River  
Project Ember Summer Camp  
Hand Tool Woodworking  
FLAX art & design  
Kettle Corn (all proceeds  
go to Park Day School)  
BBQ machine prototype  
design enhancement  
Bent-Up Pedal Buggy  
Festival Telephone Pictionary  
Drift Trike and RC Vehicles  
Hitting the Sweet Spot in Urban  
Transport: Frankentrikes

California Ebike Pedicab  
Radio Fyer Wagon

## MAGNOLIA BUILDING

Cut and Paste: Make  
Collage Portrait  
Cubit  
MOVI, a "cloud-free" Arduino  
shield speech recognizer and  
speech synthesizer  
East Bay Innovation Academy  
Mechanical arms  
UPA STEAM Ahead  
(change from Interactive)  
Play-Well TEKologies  
GGLABS  
Make "Petit Ours" (Little Bear)  
bowling pins  
Origami and Paper Fun  
For All Ages  
Artist Trading Cards  
Polyhedra Party -  
Cubes and Things  
Bowl Painting Extravaganza for  
the Food Bank Empty  
Bowls Fundraiser

