



THE FUTURE WE MAKE

Maker Faire®

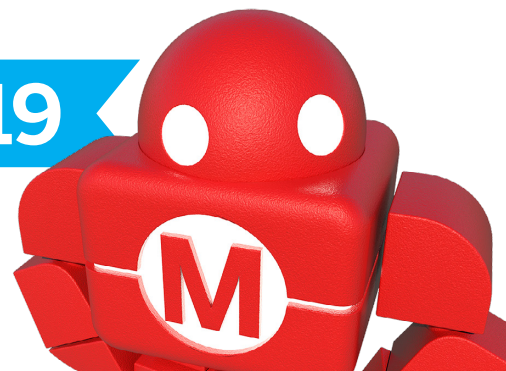
MAY 17-19



@makerfaire

BAY AREA
SAN MATEO COUNTY EVENT CENTER

FRIDAY 1-5PM
SATURDAY 10AM-7PM
SUNDAY 10AM-6PM



ZONE HIGHLIGHTS

Rearing Horse by Barry Crawford



ZONE 1

Mobile makers—
out and about

- ★ Solar Surrey
- ★ Stroller Controller
- ★ Robot Dance Party

ZONE 2

The latest in
electronics, 3D
printing, digital
fabrication plus
drones and robots

- ★ RoboJam
- ★ Mech Warfare
- ★ Museum of Future Sports Drone Cage
- ★ Cosplay
- ★ Quick Base Attendee Lounge

🔌 MAKE: ELECTRONICS
BY DIGI-KEY

🔌 DIY CONTENT CREATORS

🔌 MAKE: FRONTIERS

ZONE 3

Workshops, young
makers, maker
educators and more

- ★ Young Makers
- ★ Bay Area Lego Users Group
- ★ Kids Craft Activities
- ★ The Exploratorium
- ★ UC Berkeley CITRIS
- 🔌 GIANT WORKSHOP
- 🔌 MAKEY'S WORKSHOP

ZONE 4

Explorers abound—
submarines, airplanes,
and mechanical horses

- ★ Rearing Horse
- ★ Submarines
- ★ Maker Faire Merchandise
- ★ Make: Bookstore

ZONE 5

Fire arts, glass,
fabrication—and all
types of racing cars!



- ★ DIY Robocars
- ★ Solar Racers
- ★ Power Racing Series
- ★ Maria del Camino
- ★ Woodworking
- ★ Prosthesis
- ★ Fire Arts



ZONE 6

Local artisans and
thrilling theatre



- ★ SF Bazaar
- ★ Lacemaking & Cording
- ★ Needle Arts
- 🔌 TRAVELING SPECTACULAR

ZONE 7

The heart of Maker
Faire! Dance, big art,
keynotes and hands-on
activities for all

- ★ Dark Gallery
- ★ Laser Maze
- ★ Spider Sweet
- ★ Myriapodia
- ★ Make: Mini-Shed
- 🔌 CENTER STAGE
- 🔌 MAKER SQUARE
BY AMAZON HANDMADE
- 🔌 DANCE BATTLE STAGE

ZONE 8

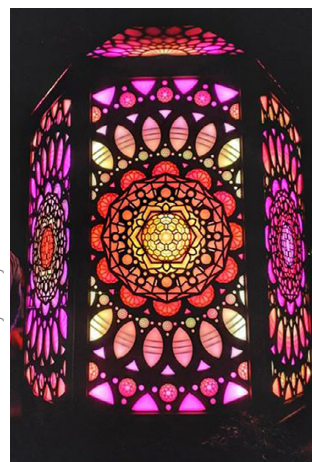
Urban homesteading,
with a focus on
sustainability and
skill building

- ★ Homegrown Village
- ★ Edible Marketplace
- ★ Tiny Homes
- ★ Hovercraft
- ★ Silkscreening
- 🔌 HANDS-ON HOMEGROWN

ZONE 9

Giant everything!
Bubbles, cupcakes,
boom boxes

- ★ Acme Muffineering
- ★ Rasterstache
- ★ Box of Boom
- ★ The Playground
- ★ Maker Faire Merchandise
- ★ Make: Mini-Shed



Axis Mundi by Thirty Circles

HANDS-ON EVERYWHERE



Soldering, lacemaking, circuit building, rocket making, origami — there's no place like Maker Faire to pick up new skills as you try your hand at new tools and technologies. Look for the BIG RED HAND signs all over the event identifying ways you can engage with Maker projects, and be sure to stop by the ongoing featured hands-on activities listed below.

ZONE 2

- ★ Raspberry Pi
- ★ Museum of Future Sports
- ★ Bay Area Community Science Labs
- ★ Foldscope

ZONE 3

- ★ Winged Unicorns
- ★ Giant Workshop
- ★ Make: Workshops
- ★ LED Plushies
- ★ FabMo

ZONE 4

- ★ Rockets
- ★ Mobile Maker Van

ZONE 5

- ★ Lower 48 Woodshop
- ★ The Crucible

ZONE 6

- ★ Cording & Lacemaking
- ★ Needle Arts

ZONE 7

- ★ Learn to Solder by Google
- ★ Learn to Breadboard by Digi-Key

ZONE 8

- ★ Gemstone Polishing
- ★ Hands-on Homegrown
- ★ Strawbees Hovercraft

MAKERS ON THE FRONTIERS OF THINKING & DOING



★ ADAM SAVAGE

founder of Tested.com and Mythbusters

➡ **THE SUNDAY SERMON**

★ Zone 5, Sunday, 12pm



★ GRAHAM HAWKES

Ocean engineer and inventor.

Graham has designed and built more than 60 manned submersibles from atmospheric dive suits to flying subs. Currently, he runs HAWX Open Ocean.

➡ **HACK OCEAN EXPLORATION:**

JOIN THE DIY UNDERWATER REVOLUTION WITHOUT GETTING WET ★ Center

Stage, Saturday, 3pm

★ MELODIE YASHAR

Co-founder of Space Exploration Architecture (SEArch+). In 2015 SEArch+ was awarded top prize in NASA's Phase 1 Centennial Challenge for a 3D-Printed Habitat for "Mars Ice House," and maintains an ongoing collaboration with NASA Langley.

➡ **MARS X HOUSE: DESIGNING AND 3D-PRINTING A FUTURE SURFACE HABITAT**

★ Center Stage, Saturday, 1pm



★ SAUL GRIFFITH

Founder and Principal Scientist

at Otherlab, Saul focuses his work on engineering solutions for clean energy, zero carbon economy. He has multiple degrees in materials science and mechanical engineering and completed his PhD in Programmable Assembly and Self Replicating Machines at MIT. ➡ **GREEN NEW DEAL: THE ENORMOUS OPPORTUNITY IN SHOOTING FOR THE MOON** ★ Center Stage, Saturday, 3:30pm



★ BRENT BUSHNELL

CEO of Two Bit Circus, an LA-based

experiential entertainment company that operates a network of micro-amusement parks. Brent is also chairman of the non-profit Two Bit Circus Foundation which deploys STEAM-based programs to inspire students about invention. ➡ **RAPID PROTOTYPING IMMERSIVE ENTERTAINMENT** ★ Center Stage, Saturday, 5pm



★ KYLE CORNFOTH

Executive Director of Maker Ed. Over the last 20 years, Cornfoth has trained teachers from all over the world on how non-traditional education experiences are essential to truly prepare students for their lives on this planet. ➡ **THE STATE OF MAKER EDUCATION** ★ Center Stage, Sunday, 11:30am

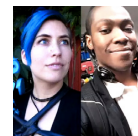


★ CHRIS ANDERSON

CEO, 3DR and founder of DIY Robocars,

DIY Drones, and Dronecode. Learn about how makers are using AI, computer vision, and much of the software used in full-size self-driving cars to explore speed, aggressive maneuvering, and race tactics in the real world. ➡ **WHY RACE ROBOT CARS**

★ Center Stage, Sunday 1:30pm



★ ALEX GLO + ODD JAYY

Alex creates IoT projects, tutorials,

and video interviews as the lead Hardware Nerd for the Hackster.io community. Jayy is a self-taught robotics enthusiast and 3D designer from Compton, CA.

➡ **MAKE FRIENDS WITH COMPANION ROBOTS**

★ Center Stage, Sunday, 12pm

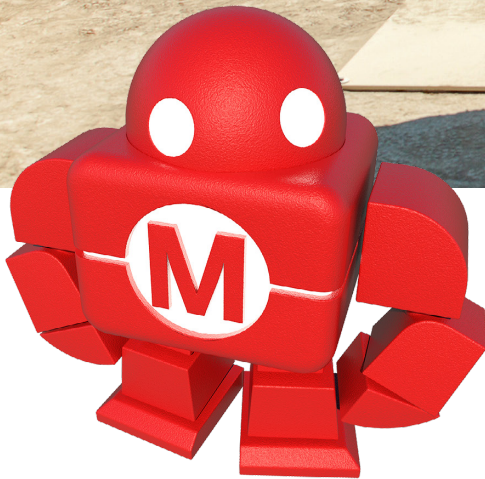
See makerfaire.com/ba/schedule for the full schedule of speakers, performances, and workshops.

500+ MAKER FAIRE EXHIBITS



ART

LET U.S. PREY: This bald eagle by Mr. and Mrs. Ferguson of Alameda, CA is handmade from thousands of nickels, dimes and pennies.



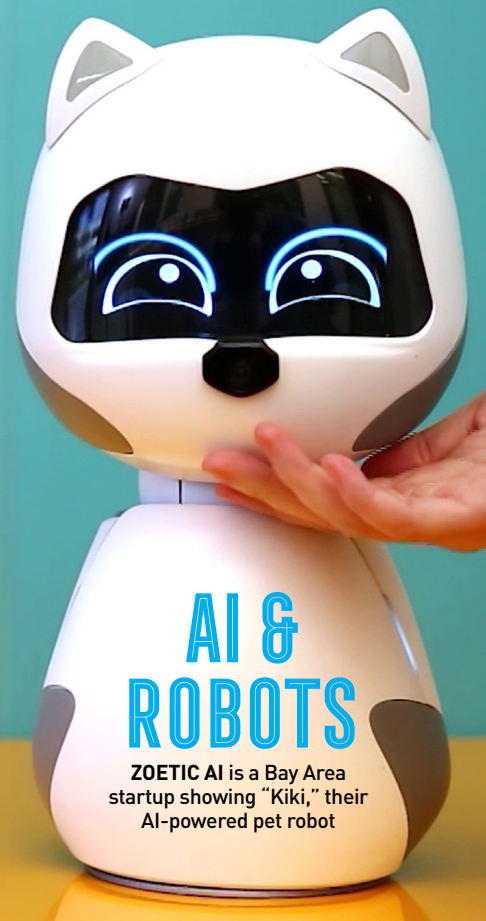
Maker exhibits are the core of Maker Faire. Over 500 makers show and share projects across engineering, art, design, science, food and craft. The creators are alongside their projects, available for questions and exchange.

You'll find surprises and inspiration in new maker tech, startups, small-scale artisan craft, "just for the heck of it" projects, team builds, tools and hacks, research instrumentation, games and toys, sustainable living, fabrication techniques and so much more.

CRAFTS

ENCHANTED LEAVES

Nedda & Aaron create nature-themed jewelry with organic materials they have gathered in the forests throughout California. They use a creative process called Electroforming, which uses chemistry and electricity to transform their designs into metal.



AI & ROBOTS

ZOETIC AI is a Bay Area startup showing "Kiki," their AI-powered pet robot

TOTALLY ADORABLE **EDGE-LIT ACRYLIC RAINBOW**



Make:

SPACE GEEK

BUILD, LAUNCH, AND EXPLORE STELLAR PROJECTS
It's easier than ever!

MISSION CONTROL:
ASTROBEE: Drive This Floating Robot on the Space Station!
Grow Plants in Space
Build Thrust-Vectored Model Rockets
Put a Giant Moon on Your Wall
Program an ISS Pointer Bot

38 PROJECTS TO DO
Laser-Cutting EVA Foam for Cosplay
Sun-Print Camera
Peltier Heat/Cool Beverage Coaster
Satellite Dish Bird Bath

3D Printed Rockets • Martian Habitats • Bio-Inspired Rovers • Next-Gen Spacesuits

makezine.com | make.co | makerfaire.com Vol. 69 June/July 2019

SPACE

NASA and Magnitude.io anchor a whole exhibitor section of startups and research institutions working on space at Maker Faire — plus *Make: Vol 69* launches at #MFBA19 and is all about “makers getting orbital.”



NEW TECH

M5Stack makes easy, stackable, user-friendly development tools for makers working in IoT, home automation and robotics.

TICKETS
GET YOURS TODAY!

FIND US ON:



@makerfaire

#mfba19 #makerfaire

Schedules for speakers, demos and attractions available online at makerfaire.com/ba/schedule

HOURS

RAIN OR SHINE!

Friday, May 17, 1pm–5pm*

**separate ticket required for Friday*

Saturday, May 18, 10am–7pm

Sunday, May 19, 10am–6pm

LOCATION

San Mateo County Event Center, 1346 Saratoga Drive, San Mateo, CA

TICKETS (cash or credit)

Saturday/Sunday Day Pass, On-Site:

- **Adults \$50**
- **Youth & Student \$30** (ages 4–17, or with active student ID at gate)
- Children 3 & under are free
- **Senior/Military/Veterans Discount** Military ID or ID required at the gate
- **Buy online for best price** (before May 17). Additional ticket types available online thru May 20

PLANNING

ATMs are available on-site.

Pets are not allowed, for their safety. **Strollers & backpacks** are allowed.

TRANSPORTATION

Information available at makerfaire.com/alt

- Ride your bike, and bring your lock for the bike corral
- Buy Event Center parking in advance at makerfaire.com/alt
- Check @fairetraffic on Twitter for up-to-date parking info
- Take CalTrain, BART or SamTrans—see makerfaire.com/alt
- Uber/Lyft/rideshare drops you conveniently on Saratoga Dr. with access to East Gate

SPECTACLE

PROSTHESIS is the world's first 100% human controlled, 100% electric powered off-road racing mech. It is a celebration of human skill in unison with high technology and is the flagship machine in a quest to make mech racing a reality. Prosthesis returns to Maker Faire after it's world debut in 2018 at #MFBA18 after a year of work and tweaks by the Furrion Exo-Bionics team. We can't wait to see what it can do!



40+ WORKSHOPS DIGGING IN DEEP

Maker Faire is the place to try new tools, experiment with materials and gain new skills. Our Make: Workshops and the new Giant Workshop in ZONE 3 offer in-depth, hands-on workshops for all ages and across many types of making. **Register online in advance to ensure your spot:** makerfaire.com/ba/schedule

RESERVATIONS TO WORKSHOPS DO NOT INCLUDE ENTRY TO MAKER FAIRE. MATERIAL FEES MAY APPLY.



See makerfaire.com/ba/schedule for the full schedule of workshops, presentations and performances.

★ MAKING CHAINMAIL



Chainmail is the blacksmith version of knitting! In this workshop, you'll learn

to make your own rings and weave them in three different styles including a Byzantine weave, a 2-in-2 pattern, and a 4-in-1 pattern. ★ **Giant Workshop, Saturday, 2pm**

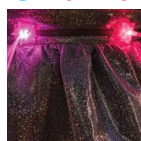
★ ELECTRIC SUGAR SKULL PATCHES

Combine science and art to create a fun personalized sugar skull patch! Sew a circuit with conductive thread, use powerful magnets to make a battery holder and then bring it all together with traditional hand sewing.

★ **Make: Workshops, Sunday, 1pm**



★ LIGHT-UP COSPLAY



Want to make light-up cosplay? Get started using cosplay/EVA foam and a

basic circuit. You'll get the chance to experiment with LEDs, conductive thread, and batteries, and use cosplay foam to make a fun cosplay wrist or arm bracer to take home. ★ **Giant Workshop, Saturday, 12:30pm**

★ INTRO TO MICRO:BIT

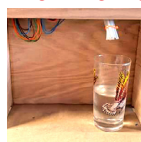


Learn to code using color, sound, and weather sensors with enviro:bit

from Pimoroni! It's loaded with sensors for air/weather, color/light, and sound. Plus, it fits right onto your micro:bit. Come spend some time with Digi-Key Electronics and Pimoroni to learn basic block-based coding and leave with a complete kit to impress your friends.

★ **Make: Workshops, Saturday, 11am**

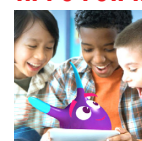
★ COCKTAIL/SODA DISPENSING ROBOT



Cocktail robotics is a fun and open ended hobby. Make—and take home—a

Raspberry Pi-based drinkbot which can be controlled via a web interface, and can dispense beverages with up to four ingredients. ★ **Make: Workshops, Sunday, 11:30am**

★ DREAM IT & BUILD IT—SOLIDWORKS APPS FOR KIDS



Introduce children 4–14 to the excitement of imagining and designing

your own creations. Apps for Kids breaks down the design process into bite-sized tools to create, style, design and engineer a concept and then present and share it with others. ★ **Make: Workshops, Saturday, 2:30pm**

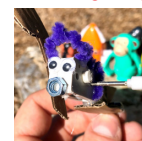
★ SCREENPRINTING MADE EASY WITH VINYL



Learn how to make your screenprint design digital and create your own

DIY screenprinting studio at home with the help of CNC technology. ★ **Make: Workshops, Sunday, 1:30pm**

★ RE-IMAGINE WIND-UP TOYS



Dissect a wind up toy, observe the parts and how they work together

and use craft materials like cardboard, googly eyes, weights and hot glue guns to create unique scrappy critters. ★ **Giant Workshop, Sunday, 11am**

★ MAKER FAIRE 2019 MERCHANDISE

Visit our Make: Mini-Shed stores for exclusive Maker Faire merchandise, Learn to Solder kits, boards and electronics, Make: books and blinky stuff. Subscribe to *Make:* magazine, or become a Make: Member and receive a special savings at the event. Look for the Makey robot icons on the map.



SARATOGA DR

 **makerfaire.com**

**Rideshare
Loading
Zone**



Immerse yourself in maker culture with a **bounty of exhibits, stages, interactive art, hands-on making and learning** — **all showcasing the creative and experimental minds** who make, play, tinker & hack.



-  **First Aid**
-  **Stage**
-  **Information**
-  **ATM**
-  **Restrooms**
-  **Food**
-  **Nursing Area**
-  **Merchandise**

Coming by car? Train? Bike? Bus? Rideshare? Find all you need on Getting to Maker Faire at makerfaire.com/alt

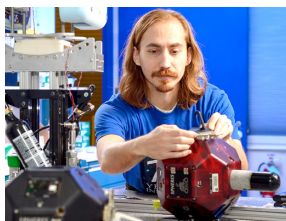
  
@makerfaire

STAGE HIGHLIGHTS

Nine stages plus a multitude of performers that will entertain and inspire. Plan your day at makerfaire.com/ba/schedule.



Maria del Camino by Bruce Tomb



★ CENTER STAGE

★ ZONE 7

▶ FREE-FLYING SPACE ROBOTS: THE NEXT GENERATION

JOSE BENAVIDES

Saturday, 12:30pm

▶ "I FORGOT MY PIN": AN EPIC TALE OF LOSING \$30,000 IN BITCOIN

MARK FRAUENFELDER

Saturday, 5:30pm

▶ BIG DREAMS AND SHORTCUTS: HOW I DESIGN DIY WEARABLE TECH

SOPHY WONG

Sunday, 12:30pm

★ MAKE: FRONTIERS

★ ZONE 2

▶ NAVIGATING A POST-TECHSHOP WORLD

Saturday, 4:30pm

▶ HOW SELF-DRIVING RC CAR COMMUNITY "DIY ROBOCARS" IS CHANGING THE WORLD

Saturday, 5:30pm

▶ COSPLAY PROP CONTEST

Sunday, 3pm



★ MAKE: ELECTRONICS BY DIGI-KEY ★ ZONE 2

▶ HOW TO 3D PRINT ON FABRIC & HELPFUL ROBOTICS

DAVID SHOREY

Saturday, 1:30pm

▶ MAKING ART WITH RASPBERRY PI

MATT RICHARDSON

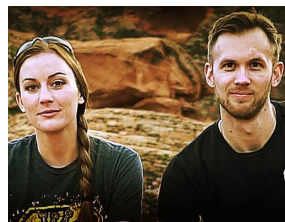
Saturday, 3pm

▶ GETTING STARTED WITH SEAWABLE ELECTRONICS

ANGELA SHEEHAN

Sunday, 3:30pm

★ DIY CONTENT CREATORS ★ ZONE 2



▶ THE KING OF RANDOM

NATE BONHAM & CALI GADE

Saturday, 11:30am

▶ GLITTER-BOMBED PACKAGE THIEVES & OTHER VIRAL VIDEO STORIES

MARK ROBER

Saturday, 1:30pm

▶ STARTING & GROWING A YOUTUBE CHANNEL!

EVAN & KATELYN

Saturday, 2:30pm

▶ MAKING IT PODCAST

BOB CLAGETT, JIMMY DIRESTA, DAVID PICCIUTO

Sunday, 1:30pm

▶ HOW TO MAKE A SHIPPING CONTAINER HOUSE

BEN UYEDA

Sunday, 2:30pm

★ MAKER SQUARE BY AMAZON HANDMADE

★ ZONE 6

▶ KOMBUCHA: FROM YOUR KITCHEN TO YOUR COSPLAY AND CLOTHING

CHRISTINE KNOBEL

Saturday, 12:30 pm

▶ BOOKBINDING

CLEVERHANDS

Saturday, 11:45 am

▶ BLOOMING CHEESE! MAKING BRIE AND CAMEMBERT AT HOME

NICOLE EASTERDAY

Sunday, 2:45pm

★ HANDS-ON HOMEGROWN ★ ZONE 8



▶ KOKEDAMA: MAKE YOUR OWN MINI SUCCULENT

NATALIE HONJO

Saturday, 12pm

▶ SAUERKRAUT MAKING

HAPPY GIRL KITCHEN

Saturday & Sunday, 2pm

▶ DIY TEA BLENDING

CHRISTOPHER COCCAGNA

Saturday, 5pm & Sunday, 3pm

★ GIANT WORKSHOP

★ ZONE 3

▶ LIGHT-UP COSPLAY WORKSHOP

SAHRYE COHEN

Saturday, 12:30pm

▶ MAKING CHAINMAIL WORKSHOP

JASON STEPLER

Saturday, 2pm

▶ RE-IMAGINE WIND-UP TOYS WORKSHOP

RYAN JENKINS

Sunday, 11am



★ DANCE BATTLE

★ ZONE 7

▶ TURFING, OAKLAND, CA

Throughout the day

▶ TURF DANCE WORKSHOP

Friday, 1pm; Saturday

& Sunday, 12pm

▶ LUDOSPORT LIGHT

SABER DUELING

Saturday & Sunday, 11am & 2pm

★ TRAVELING SPECTACULAR ★ ZONE 6

Friday, 2pm & 4pm;

Saturday & Sunday, 11:30am, 1:30pm, 4:30pm



★ PROSTHESIS ★ ZONE 5

Friday, 2pm & 4pm; Saturday

& Sunday, 11am, 2pm, 5pm

★ POWER WHEELS RACING ★ ZONE 5

Friday, 2pm; Saturday,

11am, 1pm, 2pm, 4pm,

5pm; Sunday, 11am,

1pm, 2pm, 4:30pm

★ MUSEUM OF FUTURE SPORTS DRONE CAGE

★ ZONE 2

Sessions alternate all

weekend between **DRONE**

TRAINING, DRONE COMBAT,

TINY WHOOP RACING & DEMOS

★ EEPYBIRD'S COKE & MENTOS

★ ZONE 5, WEST GATE

Saturday & Sunday, 10am

★ MARIA DEL CAMINO ★ ZONE 5

Performances on the hour

starting Friday, 1:30pm;

Saturday & Sunday, 11:30am

Check makerfaire.com/ba/schedule for full schedule & locations. Subject to change.

▶▶ makerfaire.com

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