THE FUTURE WE MAKE

Maker Faire® MAY 17–19

BAY AREA
SAN MATEO COUNTY EVENT CENTER
FRIDAY 1–5PM
SATURDAY 10AM–7PM
SUNDAY 10AM–6PM

@makerfaire
ZONE HIGHLIGHTS

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

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
★ MAKE: FRONTIERS

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!
★ SF Bazaar
★ Lacemaking & Cording
★ Needle Arts
★ TRAVELING SPECTACULAR

ZONE 6
Local artisans and thrilling theatre
★ Homegrown Village
★ Edible Marketplace
★ Tiny Homes
★ Hovercraft
★ Silkscreening
★ HANDS-ON HOMEGROWN

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 HANMADE
★ 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
★ CENTER STAGE
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★ DANCE BATTLE STAGE

ZONE 10
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

ZONE 9
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Makers on the Frontiers of Thinking & Doing

Award-winning 3D printed space habitat design; what’s important for climate protection; immersive entertainment design; research in community submersibles; AI and machine learning for makers; robotics and food; spontaneous and DIY architecture; so much more!

✪ 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

★ Kyle Cornforth
Executive Director of Maker Ed. Over the last 20 years, Cornforth 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 COMPTON ROBOTS ★ Center Stage, Sunday, 12pm

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

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 FAIRE EXHIBITS

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.

AI & ROBOTS

ZOETIC AI is a Bay Area startup showing “Kiki,” their AI-powered pet robot.
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.

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.

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**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

**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 scappy 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.
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.

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