

Friday June 18 12:00PM to 1:30PM PT

# Making Together: The Future of Girls in Design & Engineering

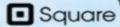


# THE MAKER MOVEMENT

A TIMELINE OF KEY MODERN EVENTS







# **JAN 2005**

First issue of MAKE magazine, a publication devoted to DIY projects, hits newsstands.

# **JUN 2005**

Etry lounches, providing an online platform for artisons to sell their crafts.



# **APR 2006**

The Bay Area hosts the first Maker Faire, a public annual event celebrating the arts. crafts, engineering, science projects and the DIY community.

# OCT 2006

The first TechShop opens in Mento Park, California.



# **FEB 2009**

Square, Inc., launches, providing crafters and artisans a vehicle to collect credit card payments directly from customers.



# We are just getting started

## **APR 2009**

MakerBot, one of the first desistop 3D printers, is available for sale.



# **APR 2009**

Kickstarter is formed and entrepreneurs begin to raise capital



## **MAR 2011**

South-by-Southwest (SXSW) celebrates the 25th year of

# SEP 2012

The New York Times reports that the "Made in America" label is regaining popularity. with more consumers buying domestic, local goods they leel represent "old-school craftsmanship, even GROOPS."



## JAN 2013

The Maker Manifesto: **Bules for Innovation in** the New World of Crafters, Hackers, and Tinkerers, written by TechShop CEO Mark Hatch, is published.



## MAY 2013

President Oberna announces the National Network for Manufacturing innovation (NNM), a collaboration between manufacturers and academia to problem solve and help advance the



## **MAY 2014**

The White House launches Mayors Maker Challenge to encourage support of Makers at the local level, and hosts the first-ever White House Moker Foire.



FEB 2015

Raspberry PL a



# **NATIONAL LEAGUE of CITIES**



.....[Belonging].....

{Guides/Mentors}

//Empowerment//



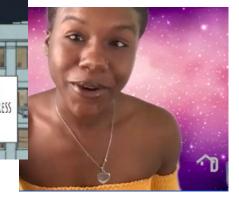


# Reinvent The **Future**

Our mission is to reinvent the general perception of women in STEM fields while inspiring interest in STEM for young women worldwide. Reinvented Magazine aspires to break barriers and aid the movement to get more girls involved in STEM by creating the nation's first print magazine for women in STEM.

# Cres MALKIYAH PRESCOTT MUSICIAN AND ACTRESS NEW YORK, USA

# Creative Placemaking









Wellington, New Zealand

Sasha Leitman is a sound artist, inventor and educator from California. She spent over a decade teaching courses and managing the Max Lab - an Interface Prototyping Lab, at Stanford University's Center for Computer Research in Music and Acoustics (CRMA). During her time at Stanford, she was involved at the Stanford dischool and taught he Design Thinking methodology in courses and private consultations. She is currently working towards a PhD program in Engineering and Computer Science at Victoria University of Wellington, New Zealand where she is exploring the design of computer music controllers inspired by auditory resonance and the nuanced control of acoustic instruments.

# Assembled "Instrument"







# **Sharing Ideas & Mentorship**

- Culture of listening
- An environment for everyone to share
- A space to help another





# **Collaboration**

- Everyone expresses ideas, sayings differently
- Opportunities to listen
- Practice for resolving misunderstandings and learning



# **Communication for Inclusion**

- Safety to speak
- Curating a resource library in different languages
- Also a curate a collection of media rich resources not reliant on a specific language or text
- Avoid assumptions









\* Makerspaces, engineering labs, innovation labs, design thinking studios, etc etc





# Let's redefine who gets to be called a "maker" and what is considered "making."

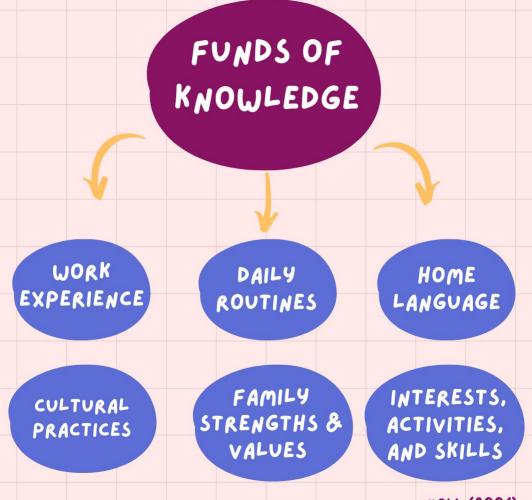
At Maker Ed, we are committed to working past representation and towards deep systemic changes in educator practice, institutions and learning experiences for young people.

This requires authentic co-creation, relationship building, and collaboration WITH our community.

# How are you CREATING A MORE AUTHENTIC LEARNING ENVIRONMENT

by incorporating ways that STEM + making already show up in your learners'





MOLL (2001)

# How are you HONORING THE WEALTH

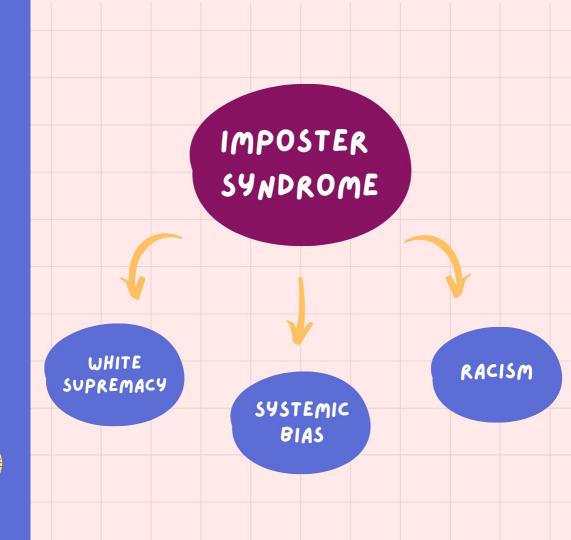
that your community brings to the makerspace in order to disrupt practices that oppress, silence, and marginalize learners?





# How are you SHIFTING THE CULTURE

of the makerspace while honoring the identities and lived experiences of historically excluded communities?



# AN OPEN DOOR IS NOT ENOUGH

# WHO IS A MAKER?

Using learners' funds of knowledge to empower them to reclaim a narrowly-defined term



- Much of the "who" is a part of the maker movement is also entangled with the "what" of the maker movement.
- What is making?
- When is something considered "making" vs. "surviving" vs. "existing" vs. "culture"?
- What does it mean to move from "open doors" to create a radically and intentionally inclusive community of practice?

Kristin Bedford, "Samantha," At It Again Car Club, Elysian Park, Los Angeles, CA (May 7, 2017). From "Cruise Night" (2021)

# **Nation of Makers' Core Principles**

As a Nation of Makers, we believe we are stronger and more sustainable when...



- Everyone is welcome, including people of every age, ability, race, religion, ethnicity, sex, gender, sexual orientation, citizenship, veteran status, marital status, parental status, level of education, and socioeconomic class.
- Everyone within our movement, our community, and in our spaces is safe, supported, heard, encouraged, and respected.
- Everyone has access to the education and resources needed to make.
- Every maker respects the safety and wellbeing of the community.
- Our community chooses to engage in the ongoing process of making a more inclusive culture.

