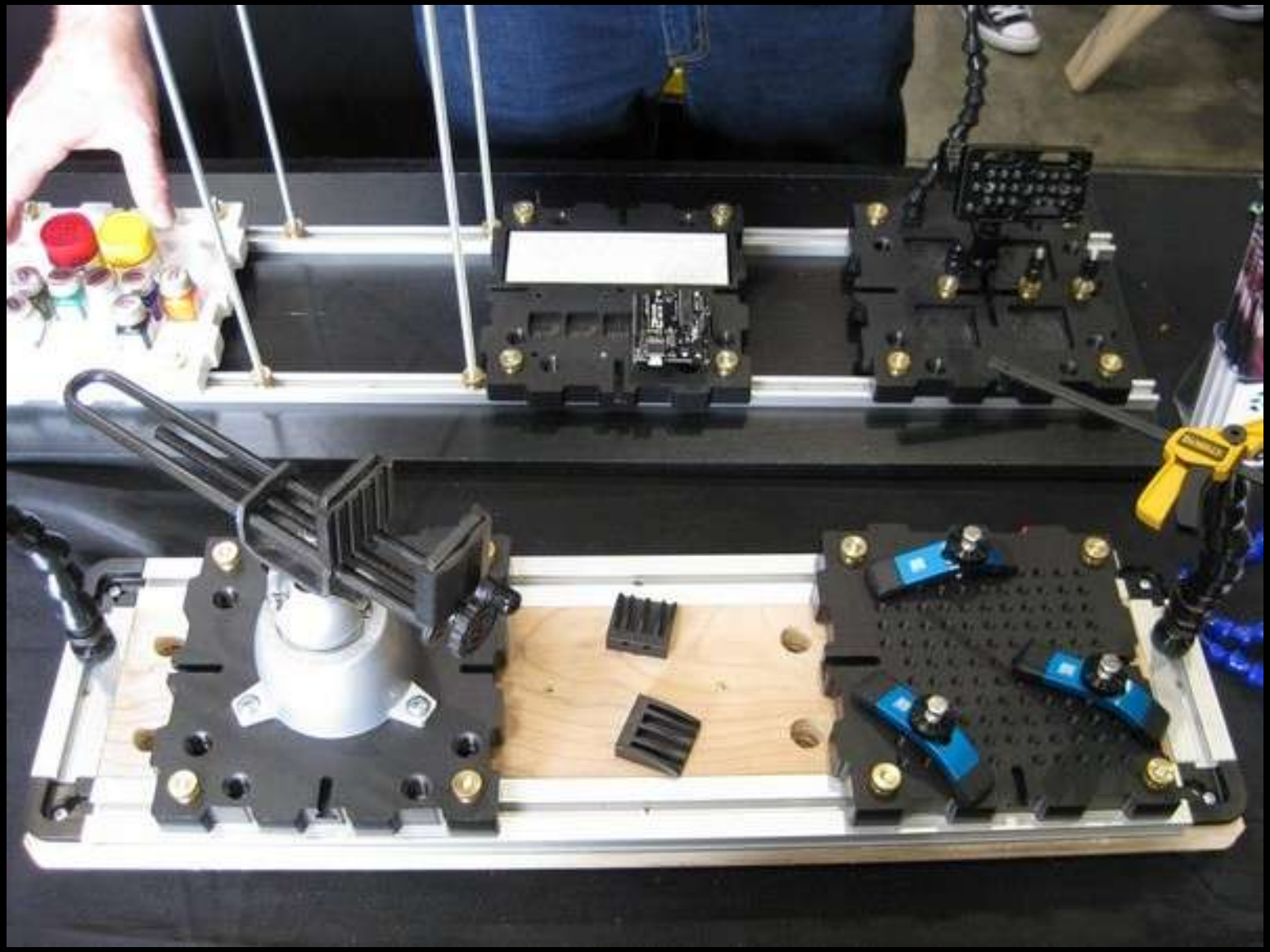
A Day at the Maker Faire

John Glauvitz

May 20, 2018

ZONE
9

Maker Faire
Information
Zone #9



Maker Faire
BAY AREA
RaptorLoc System
The RaptorLoc system is comprised of CNC-machined bases that utilize a variety of attachments to hold your bench-sized products securely. Some of the numerous users that will benefit include home crafters, electronics enthusiasts and R/C vehicles.
Jotham McMillan
Jotham is a San Mateo-based father of three who transitioned from his full-time job to launch this series of products.
raptorLoc

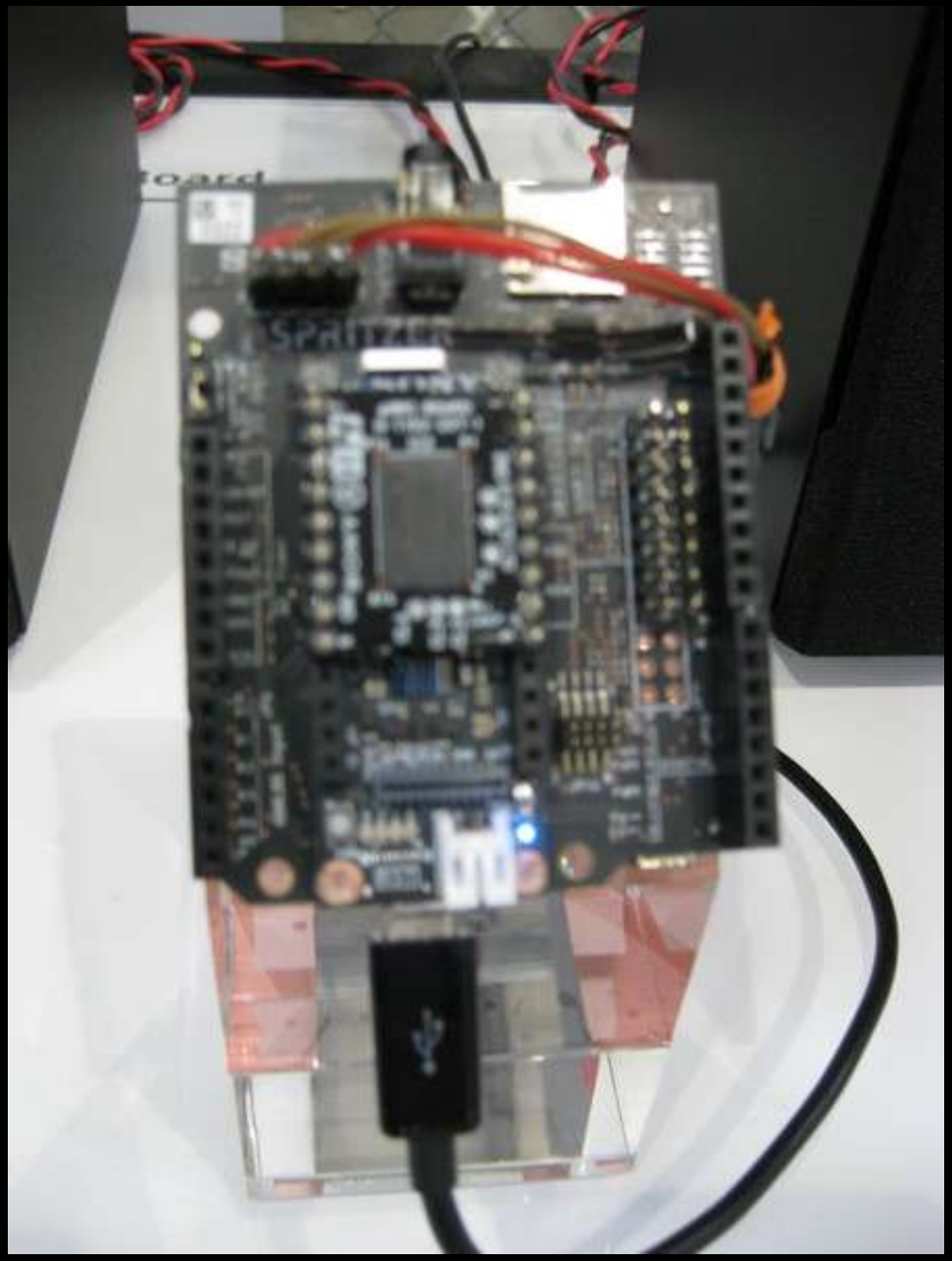
Robonica Srl
THE TACTIGON
WEARABLE ARDUINO
WITH MOTION SENSOR
USB rechargeable
Bluetooth Low Energy
Expansion I/O
IMU
5D Accelerometer
5D Gyroscope
MICROCONTROLLER
32 bit 512 Kb flash
16 Kb EEPROM
80 Kb RAM
LED
Grove
IMU
5D Magnetometer
ON/OFF button
THE TACTIGON™
Gesture Controller for Robotics, Drones, AR/VR and Gaming with Arduino
THETACTIGON.COM

Kuri

THE TACTIGON™
The perfect link between HUMAN and the DIGITAL WORLDS
Specifications

SONY
SPRESENSE
SPRESENSE
SONY
SPRESENSE Excellent smart sensing processor
SPRESENSE Development Tools
PRUSA

SONY
SONY
SPRESENSE


SPARTAN

Digital barometric pressure sensor for mobile and wearable devices
Functional block diagram
Application circuit example
Sensors & Bluetooth® Add On Boards for Sony SPRESENSE™
SPRESENSE
Add-on BOARD
SPRESENSE
CAMERA BOARD
SPRESENSE
eMMC Add-on BOARD

Boards &
MAKER FAIRE NY
EDITOR'S CHOICE
AWARD WINNER
WALABOT
EXIT
3D Imaging RF Sensor
$300
Maker Faire Special $149
Build a Mobile App for Walab
• Gesture recognition
• See through walls

WALABOT
COMING SOON
DIY
WALABOT

AUDEME
MOVI™ Arduino® Shield:
Speech Recognizer & Synthesizer
Maker Faire Special
MOVI Board
$50+tax
✓ Full sentence speech recognition (up to 150 phrases)
✓ Completely programmable and customizable
✓ On-board microphone or headset compatibility
✓ Integrated speech synthesizer
✓ Convenient programming interface using Arduino® IDE
✓ Privacy friendly: No Internet or PC connection required
✓ Works with most Arduino® boards, including Uno, Mega and Due.
Docs, Demos, Downloads at:
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RESTROOMS
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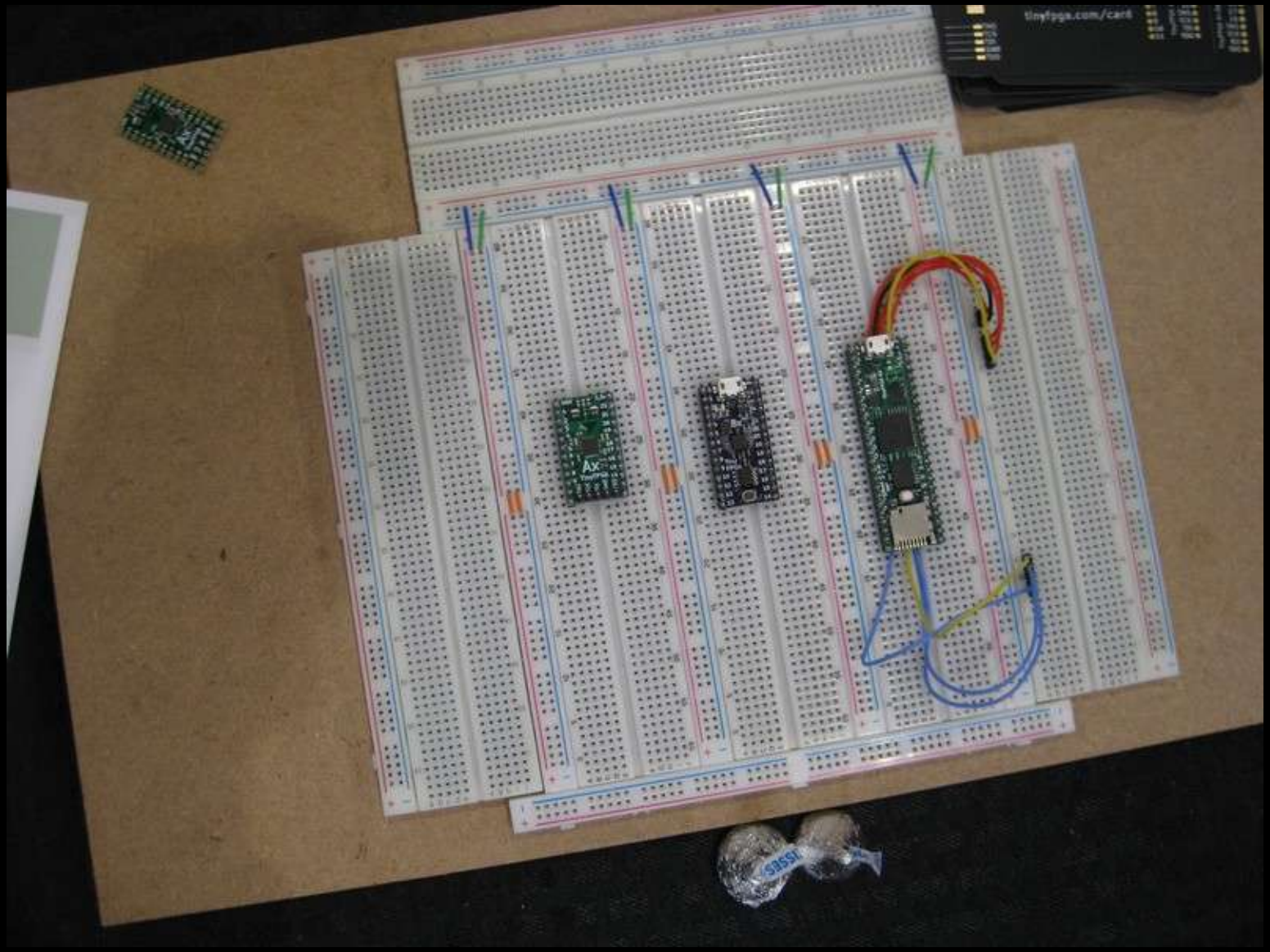
TinyFPGA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OLED Expansion
Relay Expansion
PWM Expansion
GPS Expansion
Omega2S
https://onion.io
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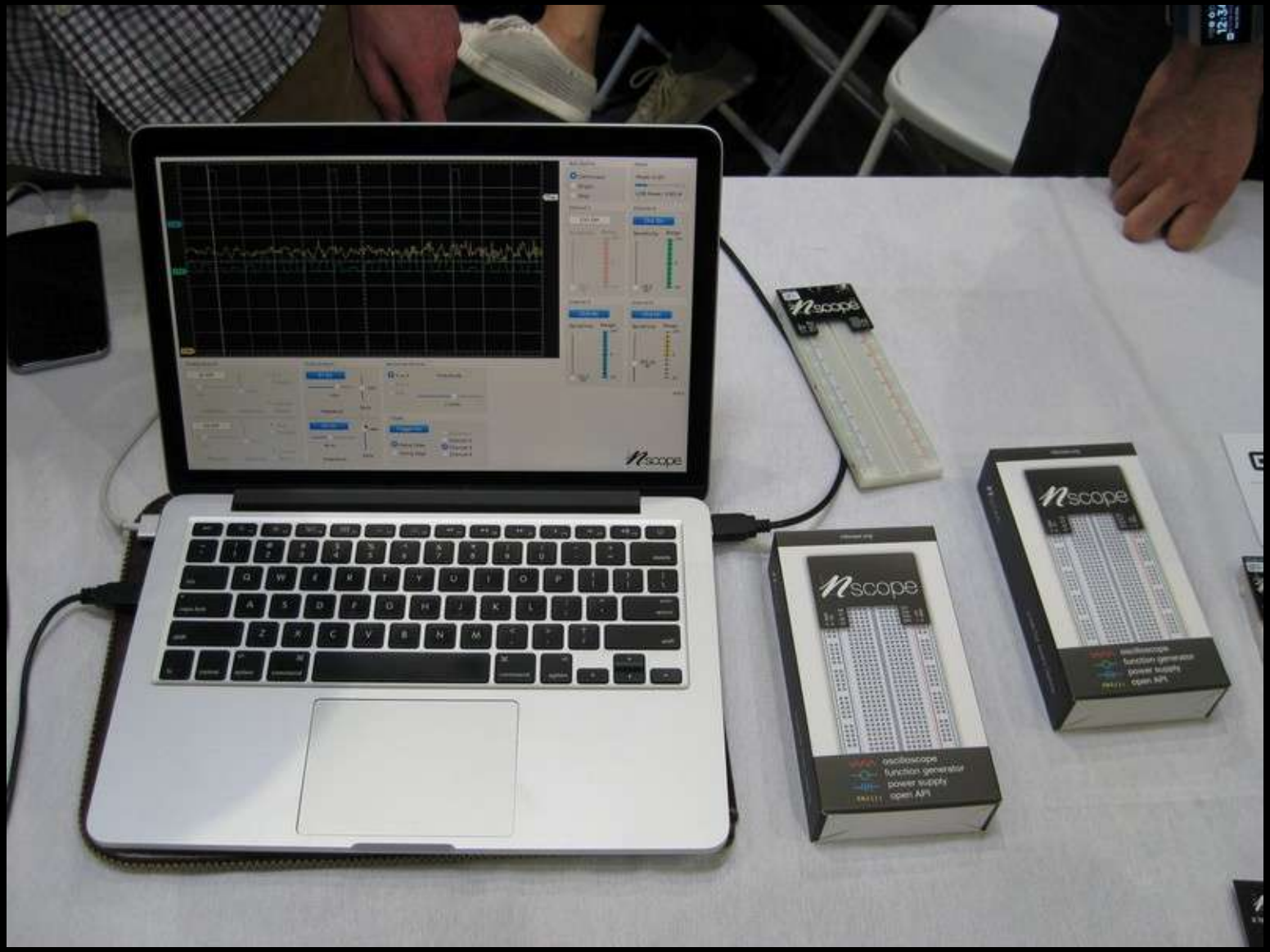
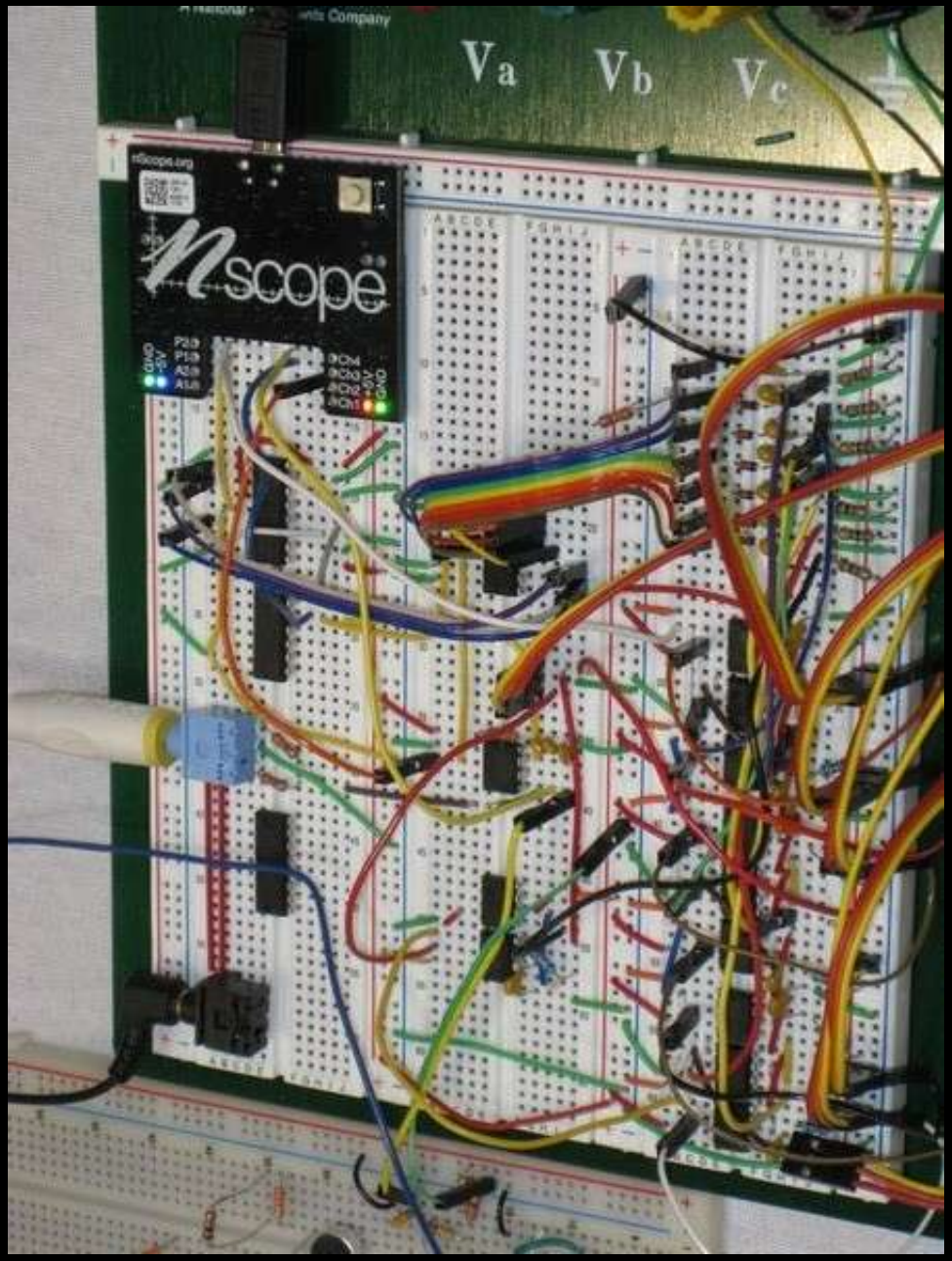
AMATEUR RADIO
TEST HERE

BLUEBERRY
MESH


nscope
nscope
nscope
nscope
oscilloscope
function generator
power supply
open API


Va
Vb
Vc
nScope.org
nscope
GND
+5V
P2.0
P1.0
A2.0
A1.0
CH4
CH3
CH2
CH1
+5V
GND

13TH ANNUAL Maker Faire BAY AREA

Bone Conduction Glasses

This is the original bone conduction glasses with a Bluetooth function which can hear music without passing through your eardrums! The main purpose of this device is for people who are difficult to hear environmental sounds.

Kentaro Tanaka

I am a college student who loves electronics. My interest is to design PCB as small as possible and to make prototypes that I came up with as my idea.

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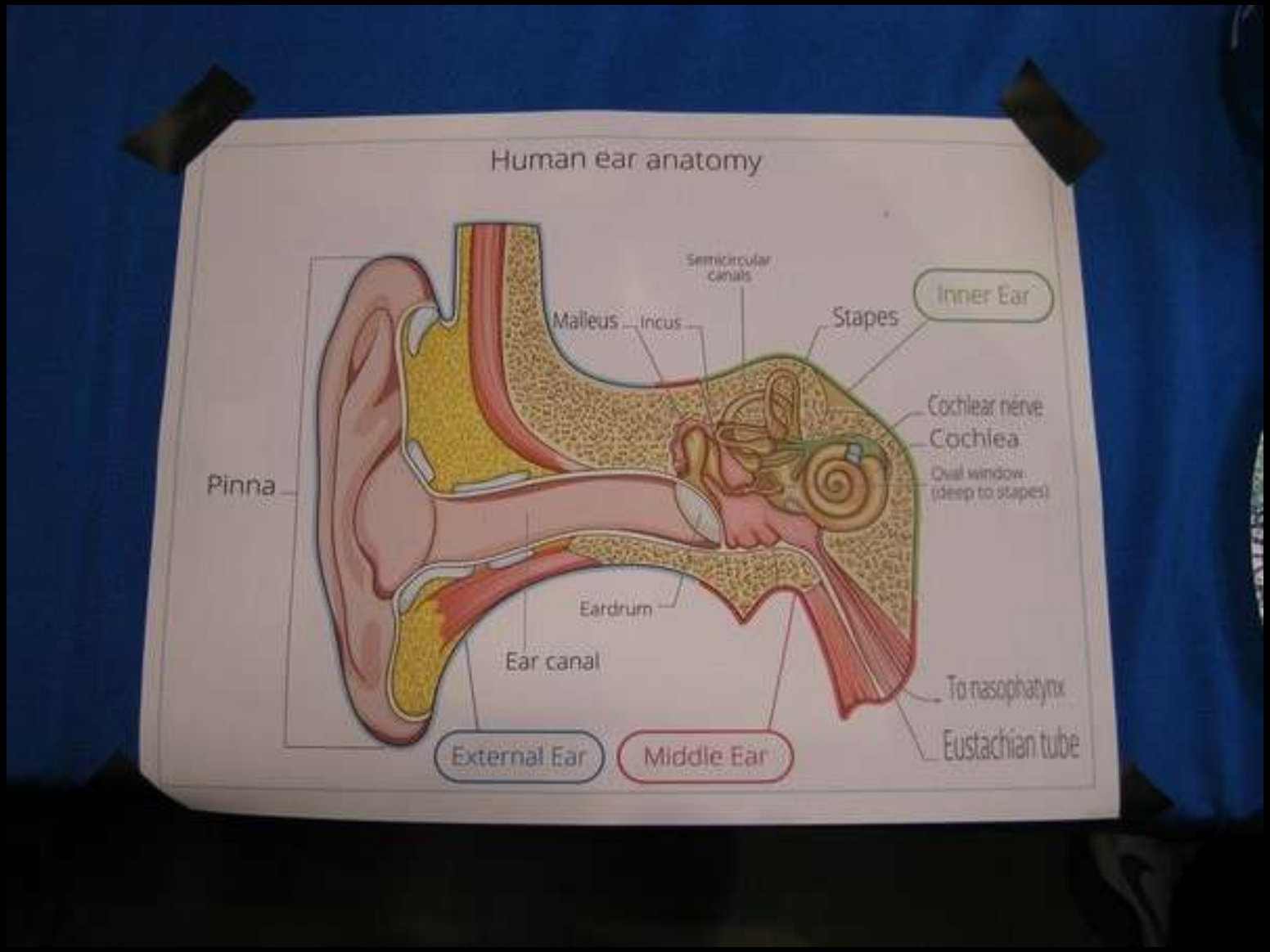

Human ear anatomy
Semicircular canals
Inner Ear
Malleus
Incus
Stapes
Cochlear nerve
Cochlea
Oval window (deep to stapes)
Pinna
Eardrum
Ear canal
To nasopharynx
Eustachian tube
External Ear
Middle Ear

bbb.io/e-ale
e-ale.org
beagleboard.org

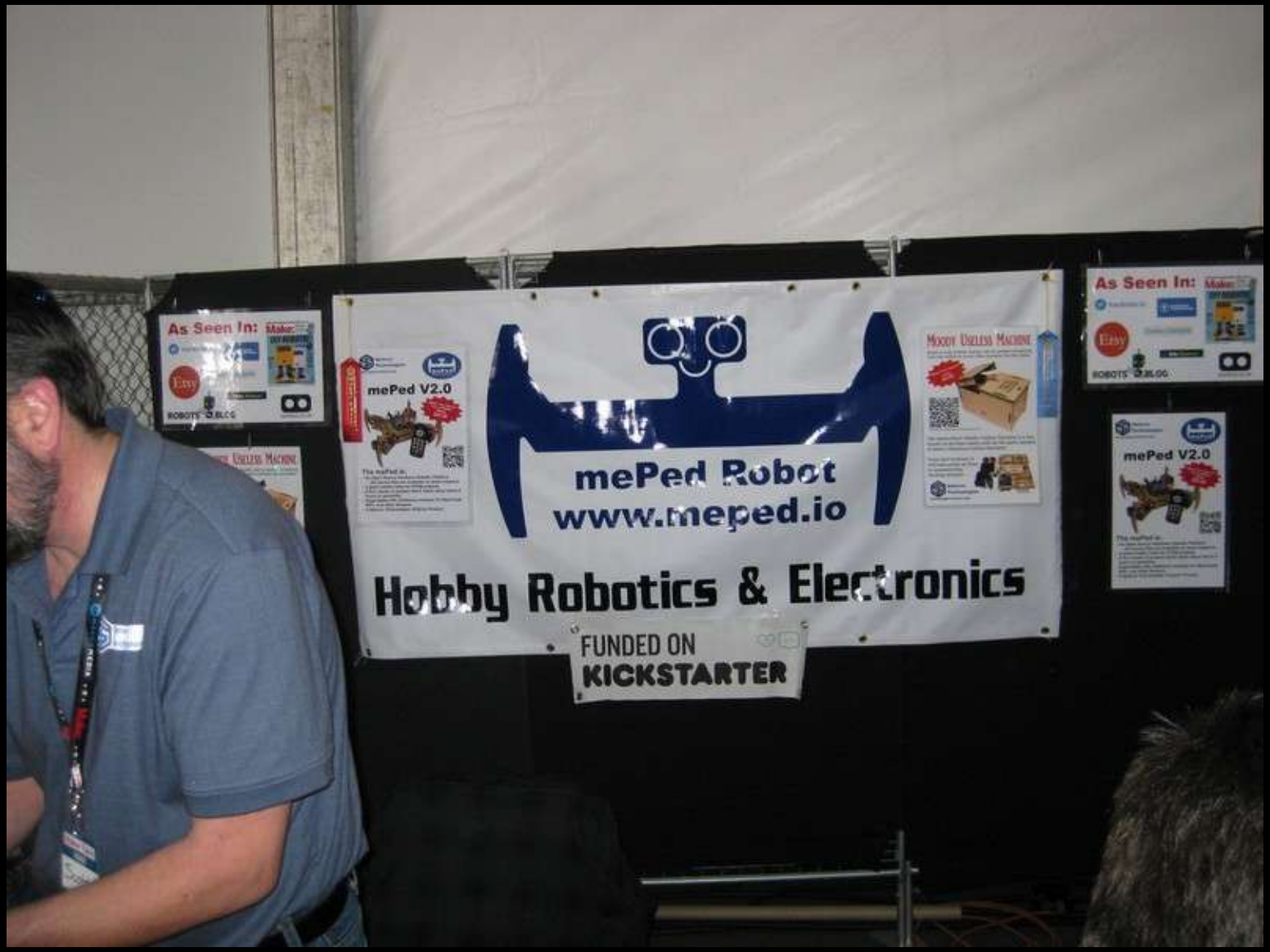
Testing BlueDonkey running ArduRover
diyrobocars.com
YouTube
beagleboard.org

Center Stage

BEWARE

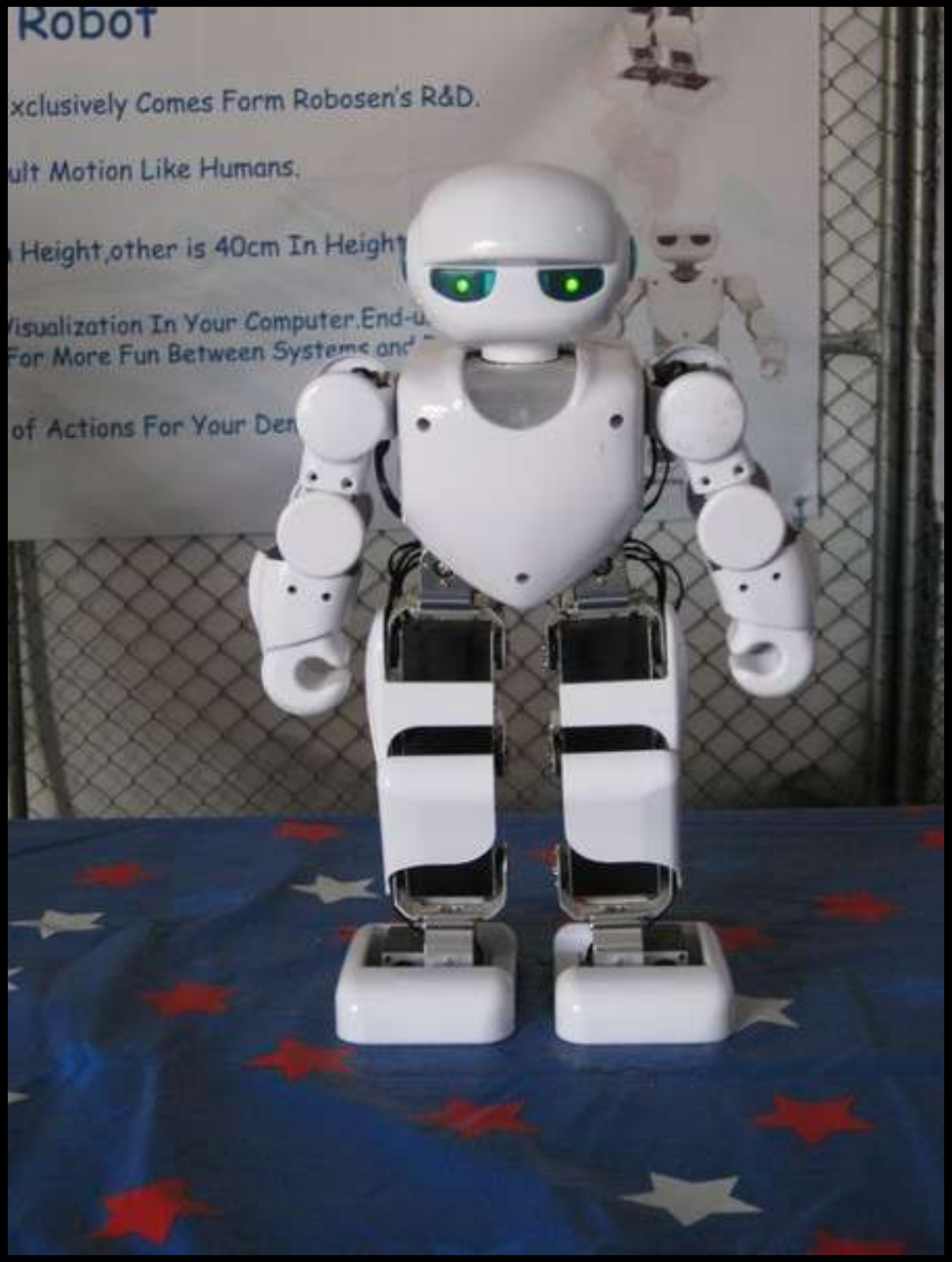
Antiques,
Collectables, Arts
and Crafts
Consignment Store featuring Antiques, Collectables, Art, Crafts, Repurposed and Upscaled items from Lassen and Plumas Counties.
Old Town Mercantile
317 Birch Street
Westwood, California 96137
530-375-7536
Bench Seats
$38 each

reboot.love
robots for love


As Seen In:
mePed V2.0
mePed Robot
www.meped.io
Hobby Robotics & Electronics
FUNDED ON
KICKSTARTER
As Seen In:
mePed V2.0

HOMEBREW ROBOTICS CLUB
EST. 1984
HomeBrew
Robotics
Club
Silicon Valley

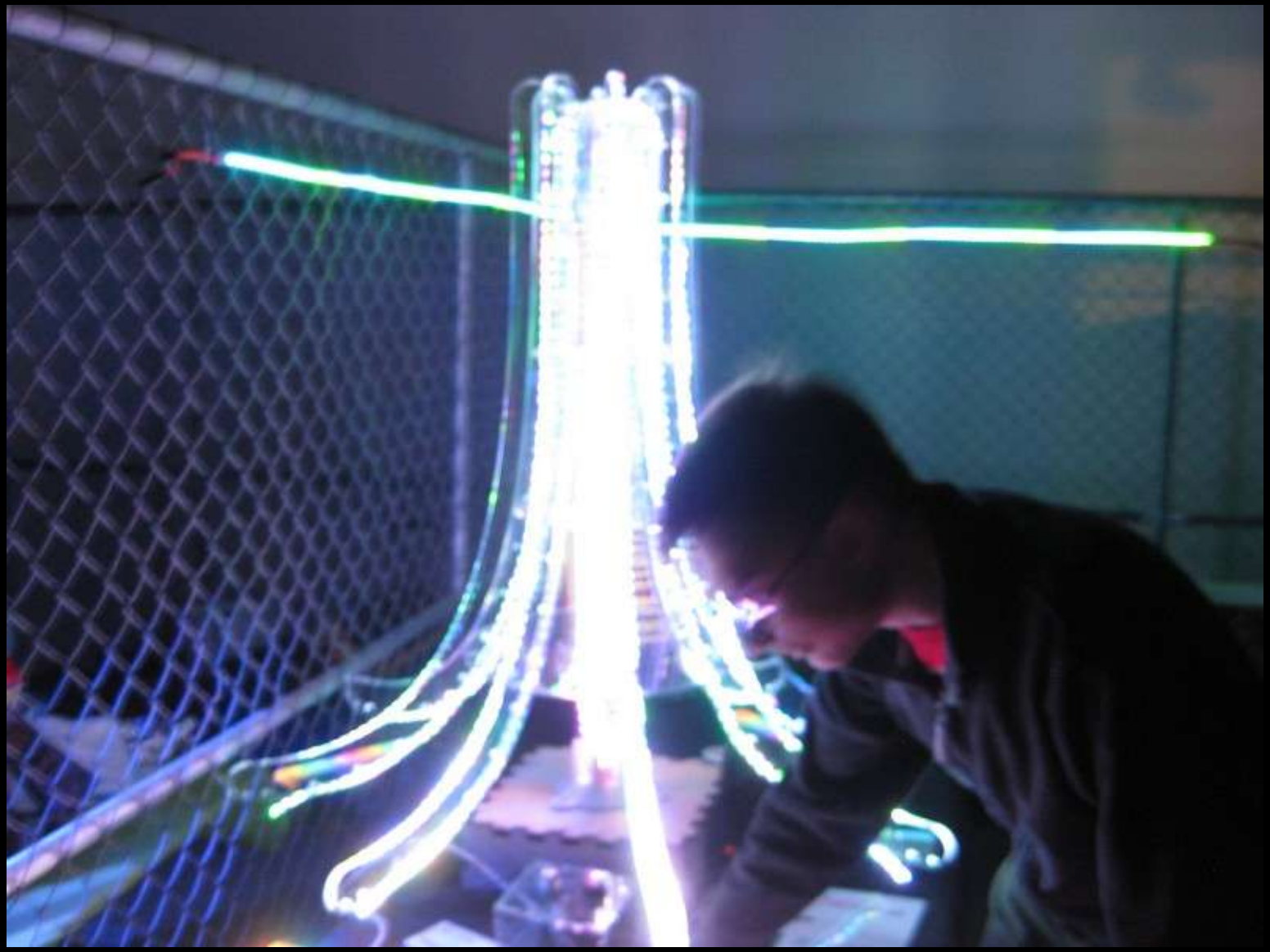
北京非凡创造教育科技中心
Beijing Extraordinary Creation Education Center
Dancer Robot
Equipped with 18 Servomotors That Exclusively Comes Form Robosen's R&D.
Can Walk,Dan
ifficult Motion Like Humans.
There Are 2 Si
n In Height,other is 40cm In Height.
You Can Make Motion Prog
Play Easily and Do An
Visualization In Your Computer,End-user Can
More Fun Between Systems and Robot.
Can Prog
ins For Your Demand.
Beijing Extraordinary Creation Education Limited (
institute specialized in science and creativity educa
Our main products are science and creativity cours
terial included,designed for senior high school ar
primary school students' in-and-extra curriculum ac
related-societies
The courses are organized with the internationally
STEM,combining with the elements of social art,in
innovative,cross-subject and multi-task curriculum
creativity.
No 951,Shui'an south street
District,Be
JUST MAKE IT!


Robot
xclusively Comes Form Robosen's R&D.
ult Motion Like Humans.
Height,other is 40cm In Height
isualization In Your Computer.End-u
For More Fun Between System
of Actions For Your Den

FURRION
N. CREATE.

BIG BUBBA'S
BAD BBQ

THE CRUCIBLE
THE CRUCIBLE
15



GRAYBRIGHT
THE TOMORROW SHOW
ROBOTGLITCH.COM

Travelers

13TH ANNUAL Maker Faire BAY AREA

Ursus Redivivus

"Ursus Redivivus" is a sculpture collaboration between Chad Glashoff and Alex Nolan, made from recycled steel parts. Exhibited in Berkeley, Orinda, and soon in Lafayette. If you are brave enough to step into the bear trap, you are in for a surprise!

Chad Glashoff, Alex Nolan

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13TH ANNUAL Maker Faire BAY AREA

Solar Horn

Solar Horn is a 12 foot tall, stainless steel, sound interactivity sculpture. It possesses an elegant form that does not give away the function, although the shape is part of that function.

Justin Grant, Alex Nolan

MAY 18–20, 2018

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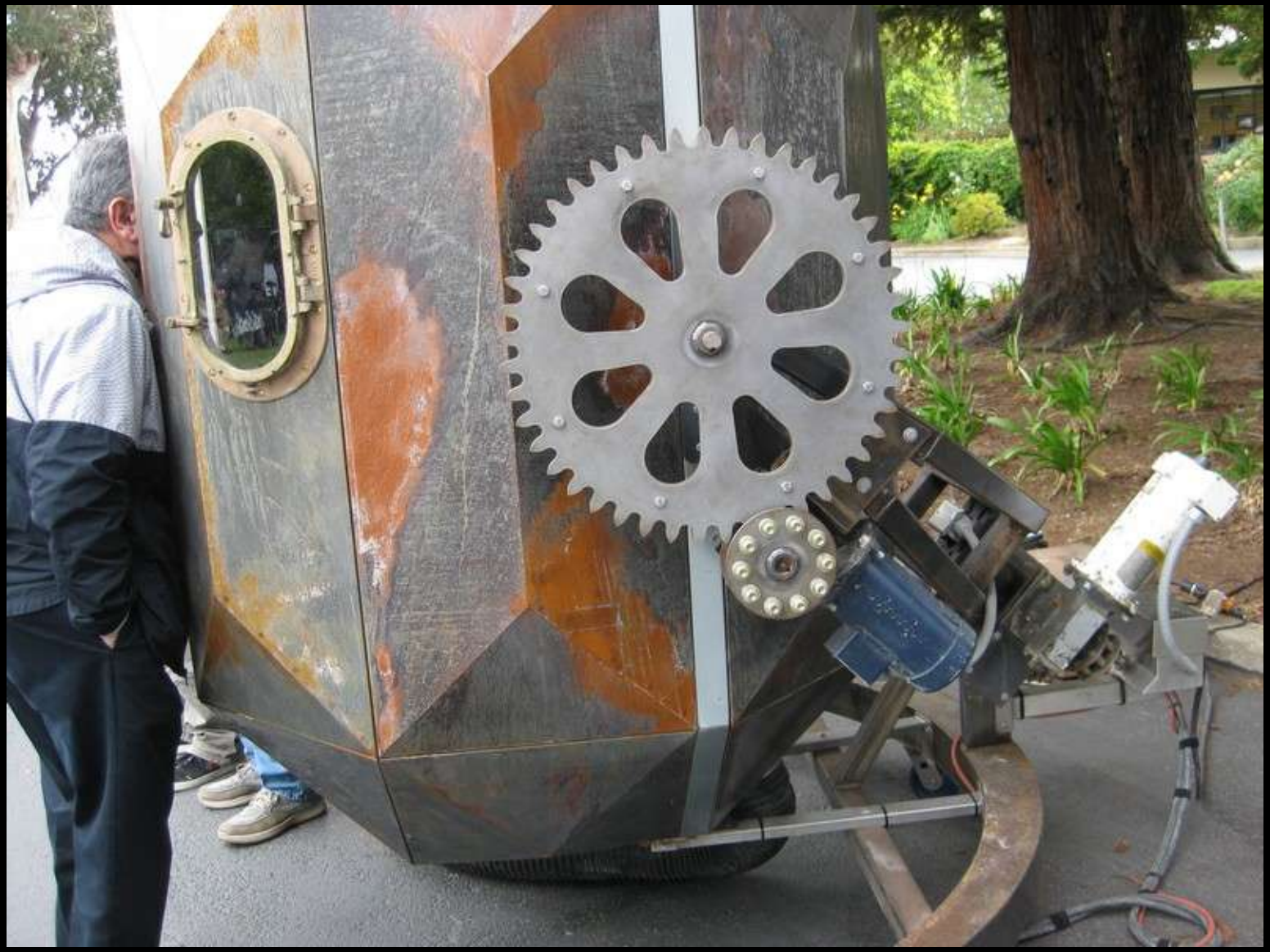
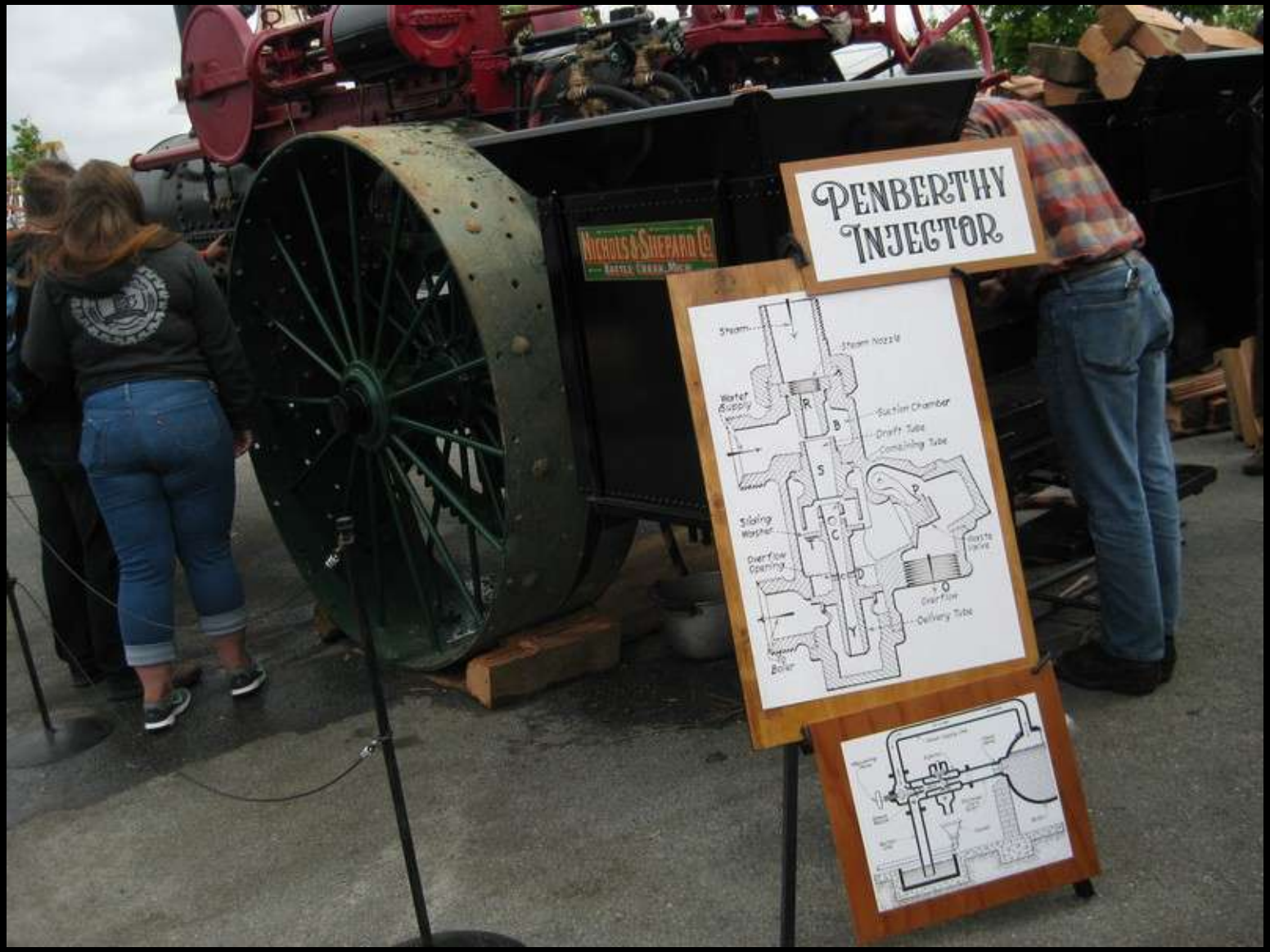


EARLY KNIGHT'S SALOON


PENBERTHY
INJECTOR
Steam
Steam Nozzle
Water Supply
Suction Chamber
Draft Tube
Combining Tube
Sliding Washer
Overflow Opening
Check Valve
Overflow
Delivery Tube
Boiler

NICHOLS & SHEPARD Co
BATTLE CREEK, MICH.
PENBERTHY
INJECTOR

ALL POWER LABS
LOCAL CARBON NETWORK: LCN
The Local Carbon Network
is community-based carbon management, working in the manner of Local Food, Farmers' Market or CSA. The project closes the carbon cycle by transforming local green-waste into renewable energy, with long term sequestration of carbon in soil as Biochar.
A Climate Solution for Today
All Power Labs invites you to participate in a local solution for climate change--and one with a big global impact. It happens right where Energy, Food and Water systems meet, right here in your own neighborhood. Our solution uses new biomass conversion technology, combined with soil cultivation at local gardens and farms, to generate energy from green-waste, while at the same time moving atmospheric carbon into soil, and accelerating new plant growth.
The Local Carbon Network forces carbon drawdown by transforming the byproducts of urban landscaping, agriculture and forestry into renewable electricity and heat, with long term sequestration of the embedded carbon into soil as Biochar. In plant biomass, the difficult work of atmospheric CO2 capture has already been solved via photosynthesis, with solar energy helpfully stored during the process. Unfortunately much of the output we currently call "waste" and pay to make it go away, or just let it rot - sending carbon dioxide and methane back skyward.
Photosynthesis
Biomass
Gasification
Biochar
Energy Production
BIOCHAR IS FABULOUS!

Lanzhe the Dragon

FOR SALE
88 B
DMC

FOR SALE
8.8 ฿

OAKW
SCH

FRESH BEER
TO
GO!
CANS GROWLERS KEGS
MacBook Pro
Light
LED Visual Ef
Designer
RocketLife

The End