

A Day at the Maker Faire

John Glauvitz

May 20, 2018



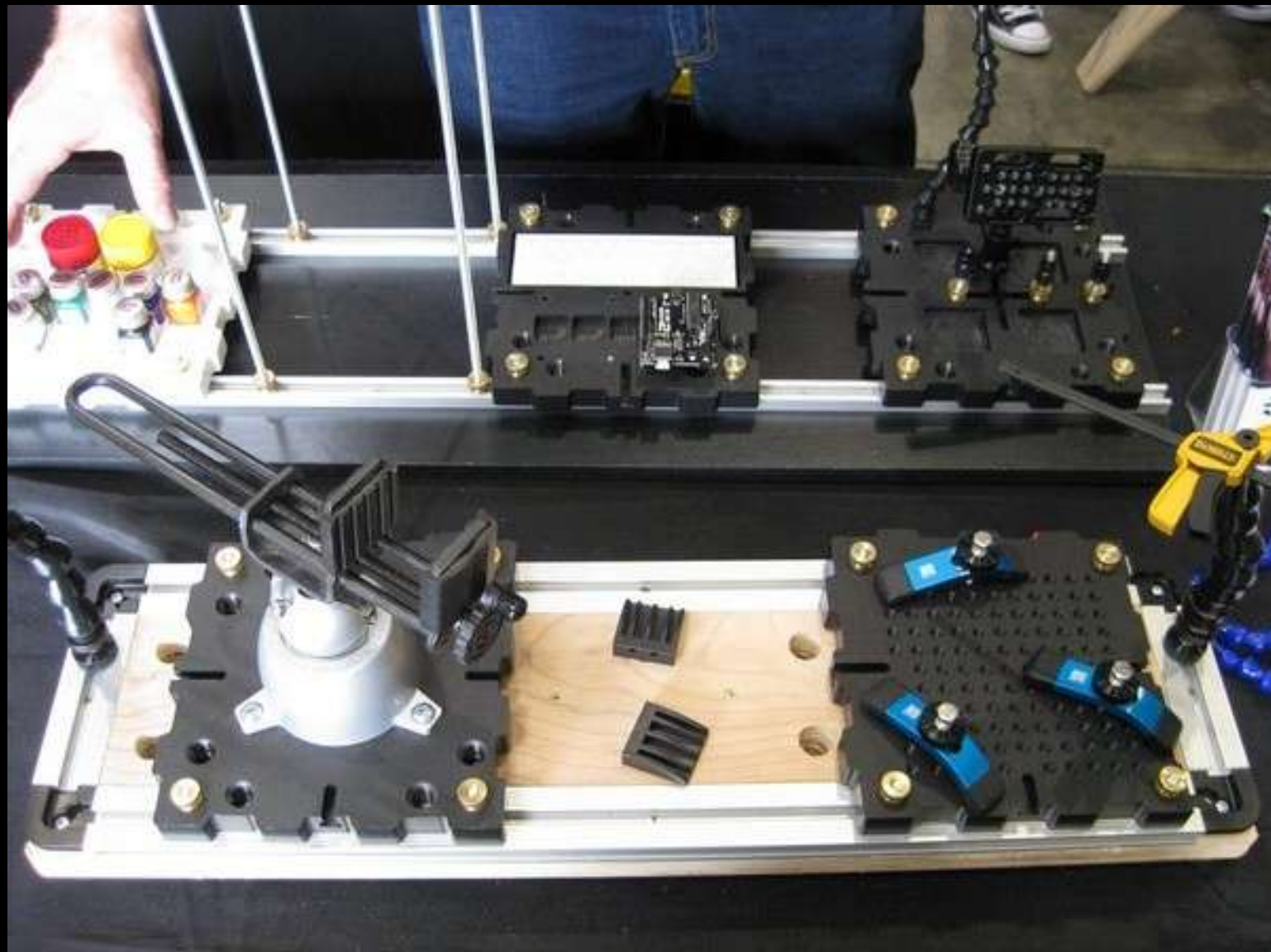












2019 ANNOUNCED **Maker Faire** BAY AREA

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.



20, 2019




RaptorLoc


Robonica Srl

THE TACTIGON

THE TACTIGON
WEARABLE ARDUINO
WITH MOTION SENSOR



- USB rechargeable
- Bluetooth Low Energy
- Expansion I/O
- IMU
3D Accelerometer
3D Gyroscope
- MICROCONTROLLER
32 bit 512 Kb Flash
16 Kb EEPROM
60 Kb RAM
- LED
- Crowe
- IMU
3D Magnetometer
- ON/OFF button



THE TACTIGON™
Gesture Controller for Robotics, Drones, AR/VR and Gaming with Arduino



- 32-bit 512 Kb Flash
- 16 Kb EEPROM
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THE TACTIGON.COM

THE TACTIGON™
Gesture Controller for Robotics, Drones, AR/VR and Gaming with Arduino



THE TACTIGON.COM

Kuri





THE TACTIGON™

The perfect link between HUMAN and the DIGITAL WORLDS
THE TACTIGON.COM

- ✓ COMPATIBLE with Android OS
- ✓ COMPATIBLE with Windows and Linux
- ✓ COMPATIBLE with other 3D Devices



Specifications

Dimensions

- Length: 100mm
- Width: 25mm
- Height: 15mm

Compatibility

- Android OS
- Windows OS
- Linux OS

Power Supply

- Rechargeable Battery
- USB Charging Cable

Compatibility with 3D Printers

- Formlabs 3D Printer
- Stratasys 3D Printer
- Autodesk 3D Printer

Material Properties

- Lightweight
- High Precision
- High Accuracy

Advanced Features

- 3D Stylus
- 3D Stylus Mount
- 3D Stylus Tip
- 3D Stylus Body
- 3D Stylus Base
- 3D Stylus Cap

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THE TACTIGON.COM



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 INNOVATION
 SUSTAINABILITY
 ENTERTAINMENT

SPRESENSE SONY

SPRESENSE Excellent smart sensing processor

Amazing Audio-Processing Features
 • 16-bit sampling @ 48 kHz
 • 128-bit processing @ 48 kHz
 • 128-bit DAC

Imaging Features
 • 10-bit image sensor
 • 1080p 30fps
 • 10-bit image sensor

High-Resolution Audio
 • 24-bit/192 kHz
 • 10-bit DAC

Sensor Suite
 • 3-axis accel
 • 3-axis gyro
 • Digital IIR (optional) @ 100 Hz

Positioning Features
 • GPS/GNSS sensor
 • Multiple GNSS systems support

Battery Capacity
 • 1.5mAh (typical) @ 1.8V
 • 1.5mAh (typical) @ 1.8V

SPRESENSE Development Tools

SONY
 • SPRESENSE kit support
 • 100% open source
 • 100% open source
 • 100% open source

ARDUINO IDE
 • 100% open source
 • 100% open source
 • 100% open source

ECLIPSE IDE
 • 100% open source
 • 100% open source
 • 100% open source





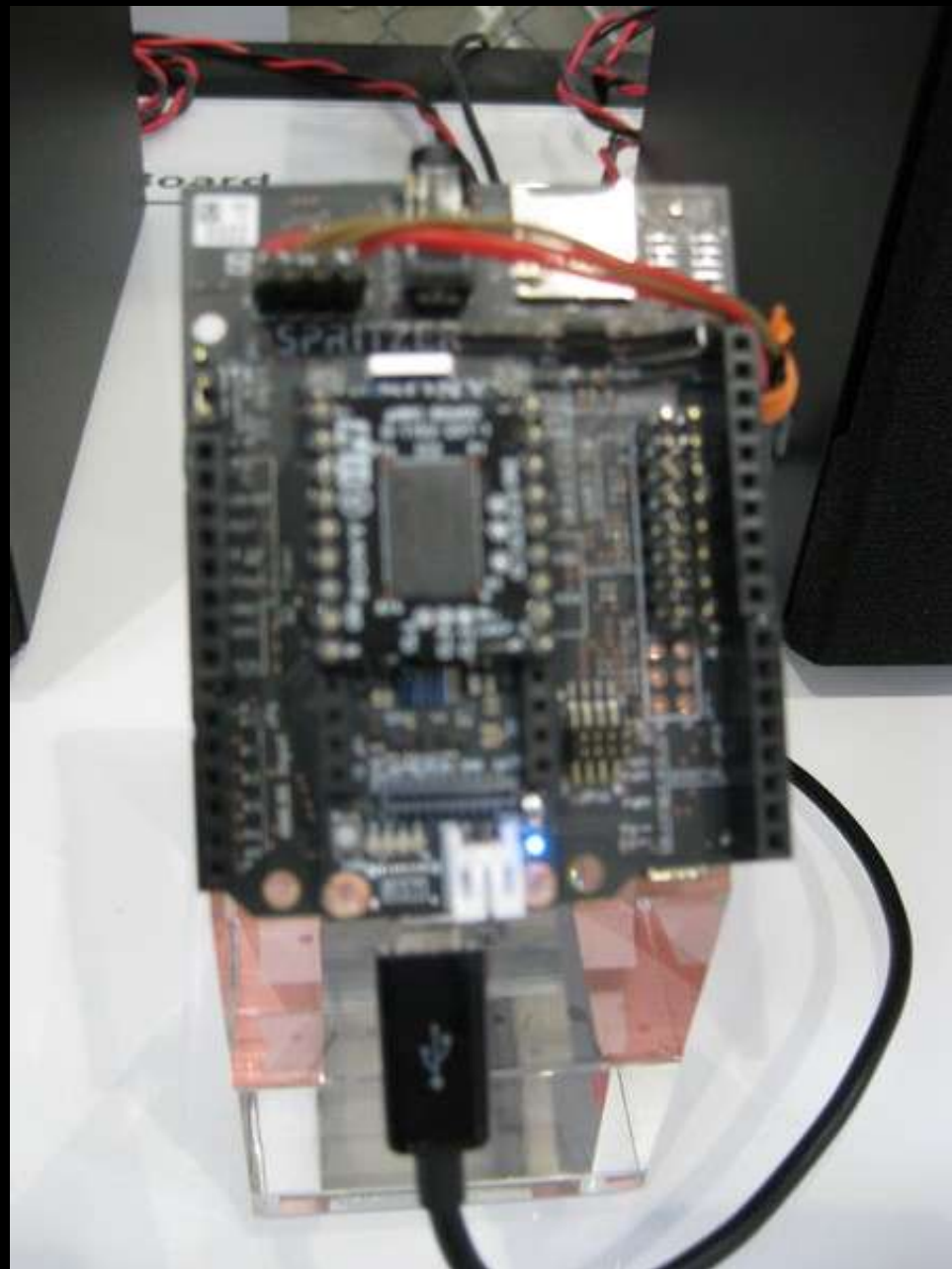
SONY

board

SONY

NRPER JENFER JF NVENCF
SPRESENSE
NRPER JENFER JF NVENCF

Evolution will turn into a good sound system by your skill



Infineon

Digital barometric pressure sensor for mobile and wearable devices

SPR030 is a monolithic digital barometric air pressure sensor with a high accuracy level and low current consumption. The SPR030 is built on a precision and temperature compensated silicon sensor array element based on a piezoresistive principle which achieves high precision during temperature change. The small package makes the SPR030 ideal for mobile applications and wearable devices.

Key Features:

- Pressure: 100 - 1200 hPa
- Temperature: -40 - 80 °C
- Pressure total error (max): ±0.025 hPa (at 1.013 hPa)
- High precision mode: accuracy: ±0.01 hPa (at 1.013 hPa)
- Temperature accuracy: ±0.2 °C
- Pressure hysteresis: nonlinearity: ±0.1 Pa (at 1.013 hPa)
- Measurement time: low power mode: 8 µs
- Average current consumption: 1.6 µA (typ.)
- Supply voltage: 1.8V - 3.3V
- 1.8V - 3.3V

Applications:

- Altitude measurement - Four direction e.g. in shopping malls and parking garages
- Speed and speed - Accurate elevation gain and vertical speed
- Outdoor navigation - GPS start-up time and accuracy improvement
- Local weather station

Functional Block Diagram

Application circuit example

SPR030 ESD structure with protective diodes

Contact 2, Bus and I2C/UART
Infineon Technologies Japan Co., Ltd. www.infineon.com
Mitsumi Inc., Toshiba Company www.infineon.com

ROHM

Sensors & Bluetooth® Add On Boards for Sony SPRESENSE™

Integrate multiple sensors and Bluetooth® SoC

Features:

- Supports multiple sensors on 20 pins: 20 pins, 20 pins, 20 pins, 20 pins, 20 pins
- Supports multiple sensors on 20 pins: 20 pins, 20 pins, 20 pins, 20 pins, 20 pins
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Applications:

- All applications
- Supports multiple sensors on 20 pins
- Supports multiple sensors on 20 pins

Block Diagrams:

- Sensors and SoC Board
- Bluetooth and SoC Board
- Sensors and SoC Board
- Bluetooth and SoC Board

ROHM Co., Ltd.

NIPEREN/2177/NEN/1

SPRESENSE

Add-on BOARD

The camera module on the board is a 2MP camera module with a 2MP camera module and a 2MP camera module. It is a 2MP camera module with a 2MP camera module and a 2MP camera module.

NIPEREN/2177/NEN/1

SPRESENSE

CAMERA BOARD

The camera module on the board is a 2MP camera module with a 2MP camera module and a 2MP camera module. It is a 2MP camera module with a 2MP camera module and a 2MP camera module.

NIPEREN/2177/NEN/1

SPRESENSE

eMMC Add-on BOARD

The camera module on the board is a 2MP camera module with a 2MP camera module and a 2MP camera module. It is a 2MP camera module with a 2MP camera module and a 2MP camera module.

MAKER FAIRE NY
EDITOR'S CHOICE
AWARD WINNER

WALABOT

3D Imaging RF Sensor

Maker Faire Special ~~\$300~~ \$149

Build a Mobile App for Walabot

...king

- Gesture recognition
- See through walls

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Sensor

WALABOT
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AUDEME

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MOVI Board
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- ✓ Integrated speech synthesizer
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H01R00



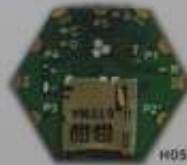
H02R10



H04R00



P01R00



H05R00



H01R00



H02R00



H03R00



H04R00



H05R00



H06R00



H07R00



H08R00



H09R00

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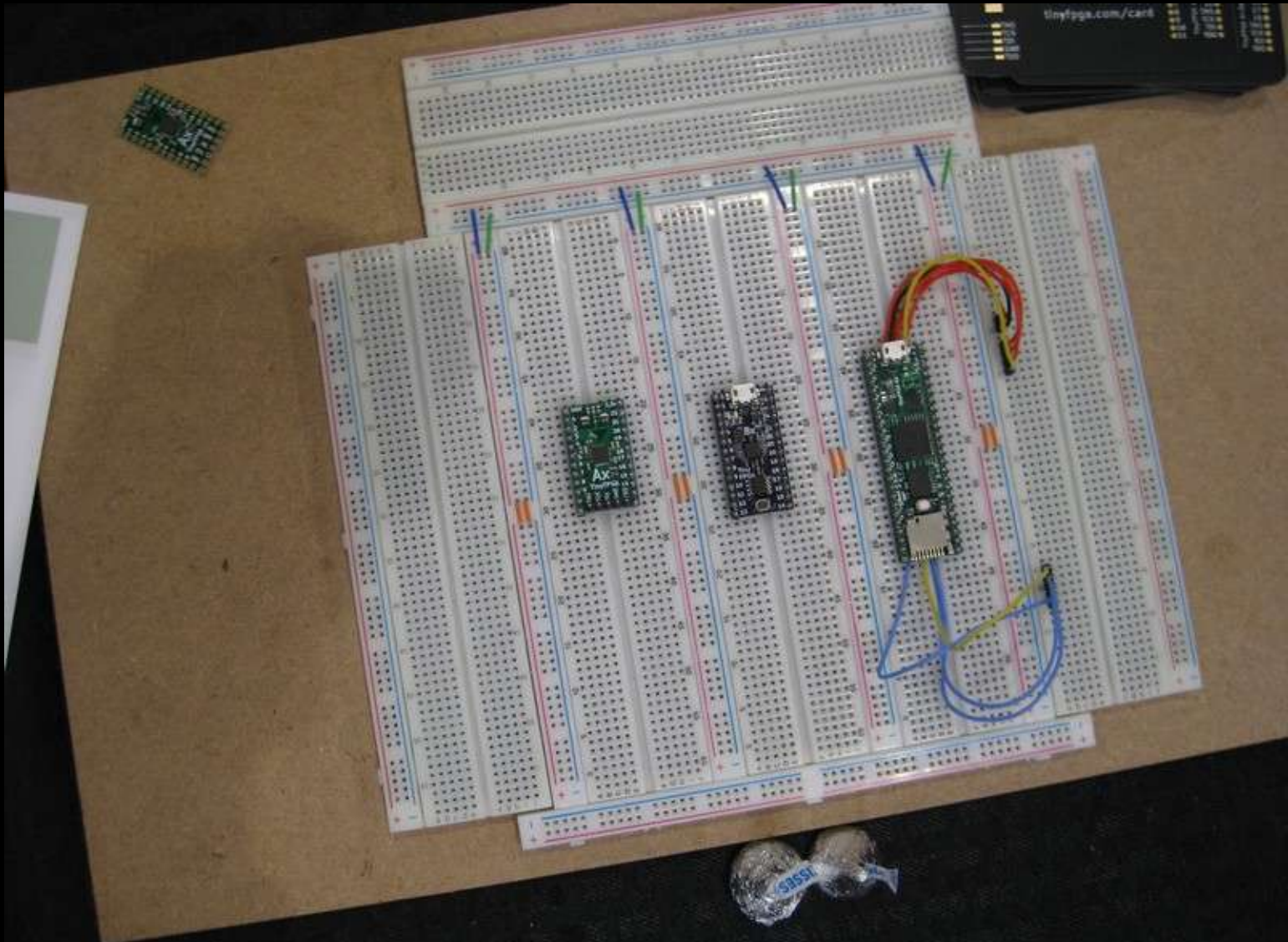
RESTROOMS

EXIT



TinyFPGA





vinylggs.com/cart

ATmega328P

Arduino Uno

I2C module

SRSS

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**Invention Platform
for the Internet of Things**



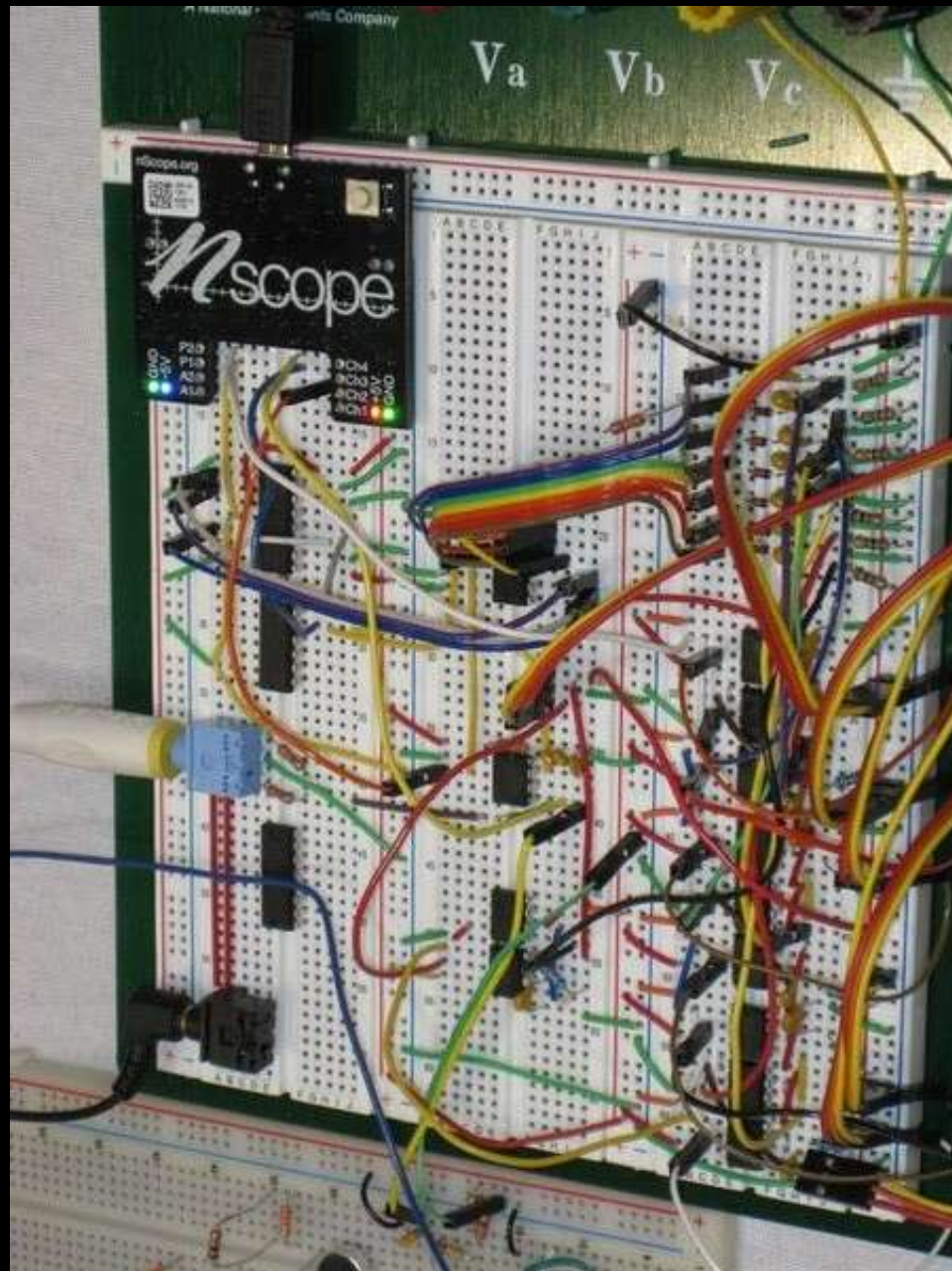
<https://onion.io>

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AMATEUR RADIO
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BLUEBERRY mESH







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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.



MAY 18-20, 2018

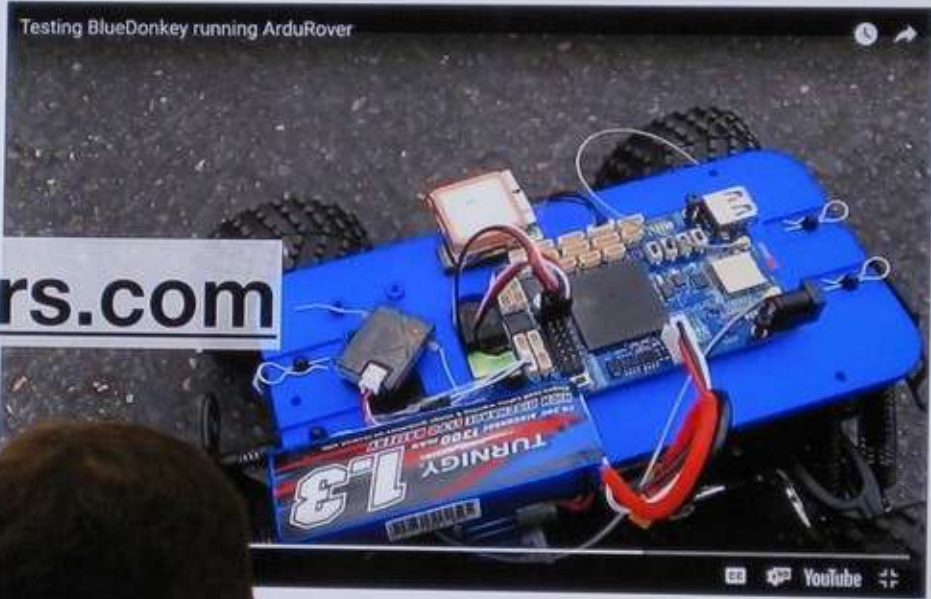
Human ear anatomy



The image shows a digital display at an event. The display features a photograph of a BeagleBoard X-MLO development board. The board is populated with a USB drive in the top-left port and a small microphone in the top-right port. The text 'e-ale.org' is printed on the board. To the right of the board image, the URL 'bbb.io/e-ale' is displayed in a white box. At the bottom right of the screen, the BeagleBoard.org logo is visible. The background of the display is red. The screen is mounted on a wall with a decorative pattern of red and yellow stars on a dark blue background. A microphone icon is also visible in the top right corner of the wall's pattern. In the foreground, the backs of several people's heads are visible as they look at the display.

diyrobocars.com

Testing BlueDonkey running ArduRover



YouTube

 beagleboard.org









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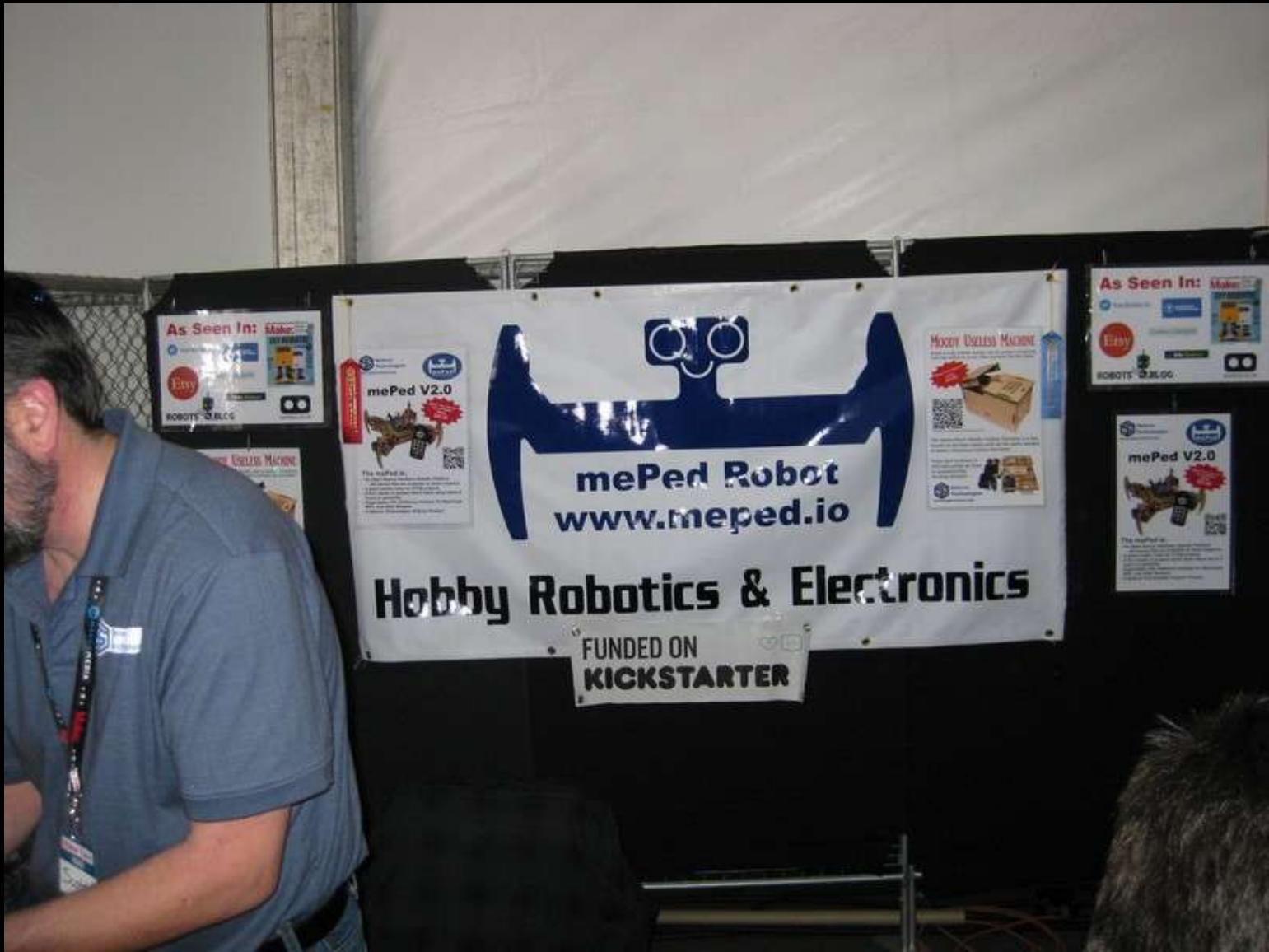




reboot.love
robots for love







As Seen In: Make, Easy, ROBOT'S & B.L.C.C.

mePed V2.0

The mePed is...

mePed Robot
www.meped.io

Mooey Dazzles Machine

QR code and product image.

As Seen In: Make, Easy, ROBOT'S & B.L.C.C.

mePed V2.0

The mePed is...

Hobby Robotics & Electronics

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Dancer Robot

- Equipped with 18 Servomotors That Exclusively Comes Form Robosen's R&D.
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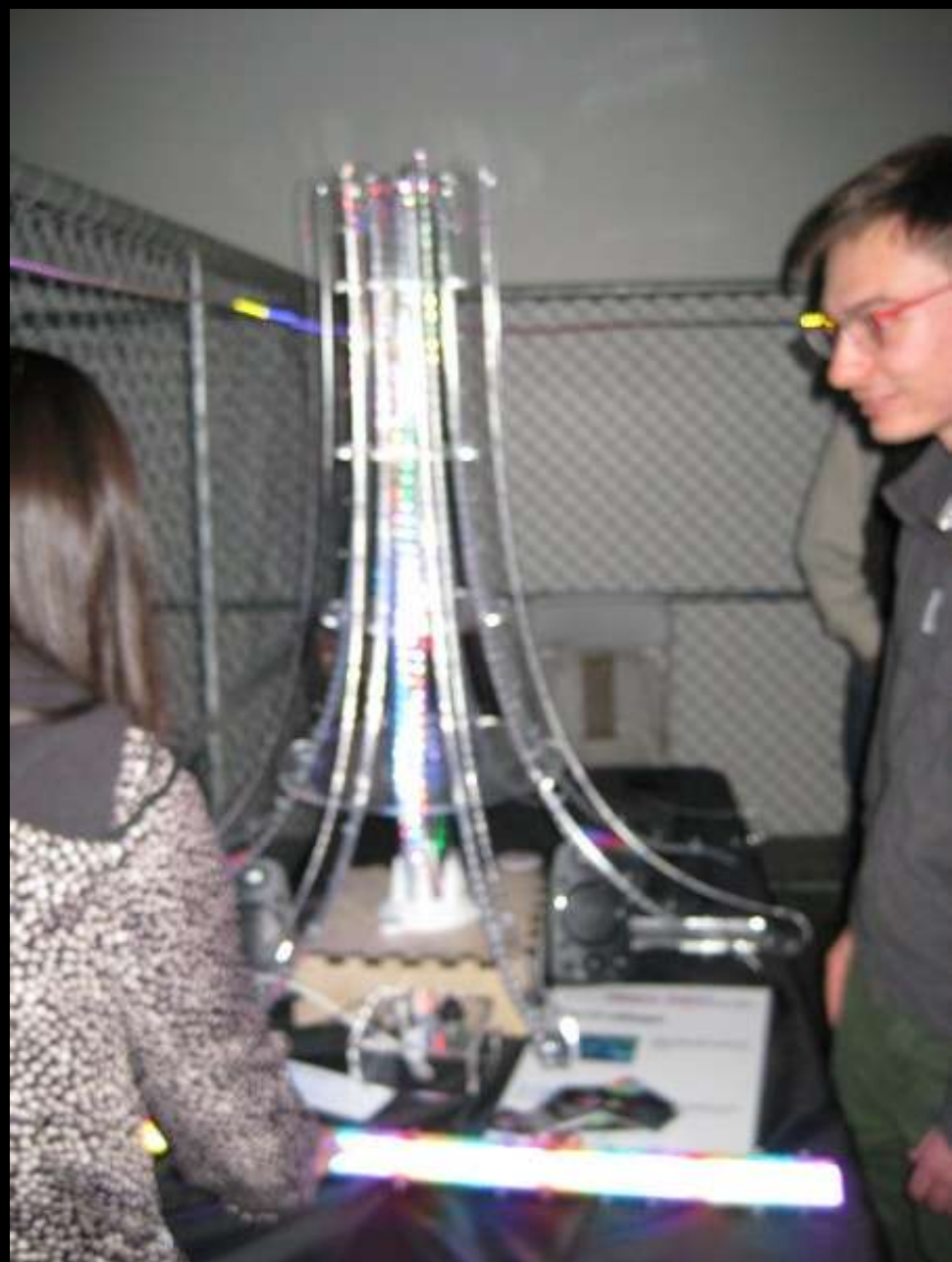


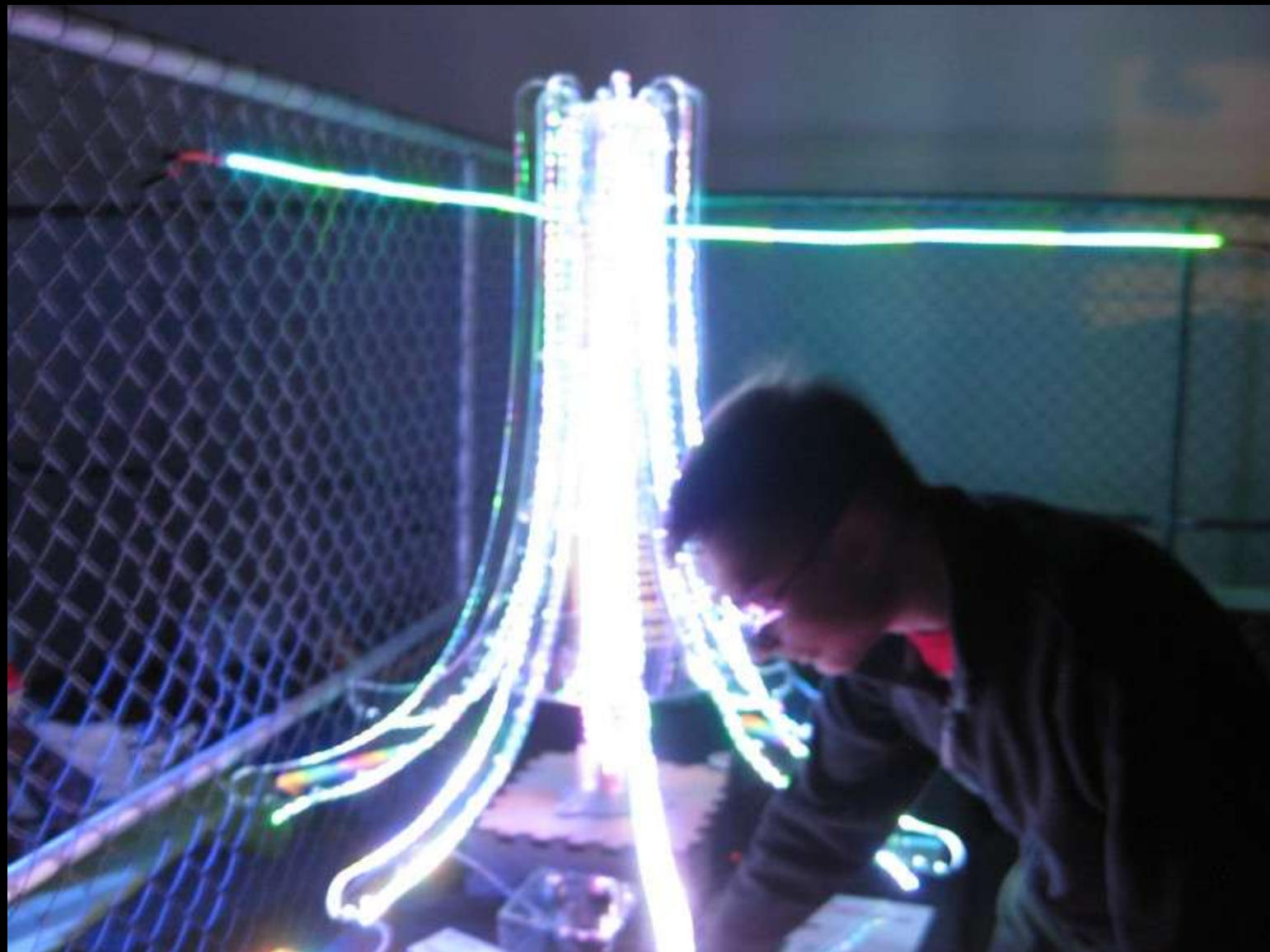
































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Maker Faire

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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Maker Faire

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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

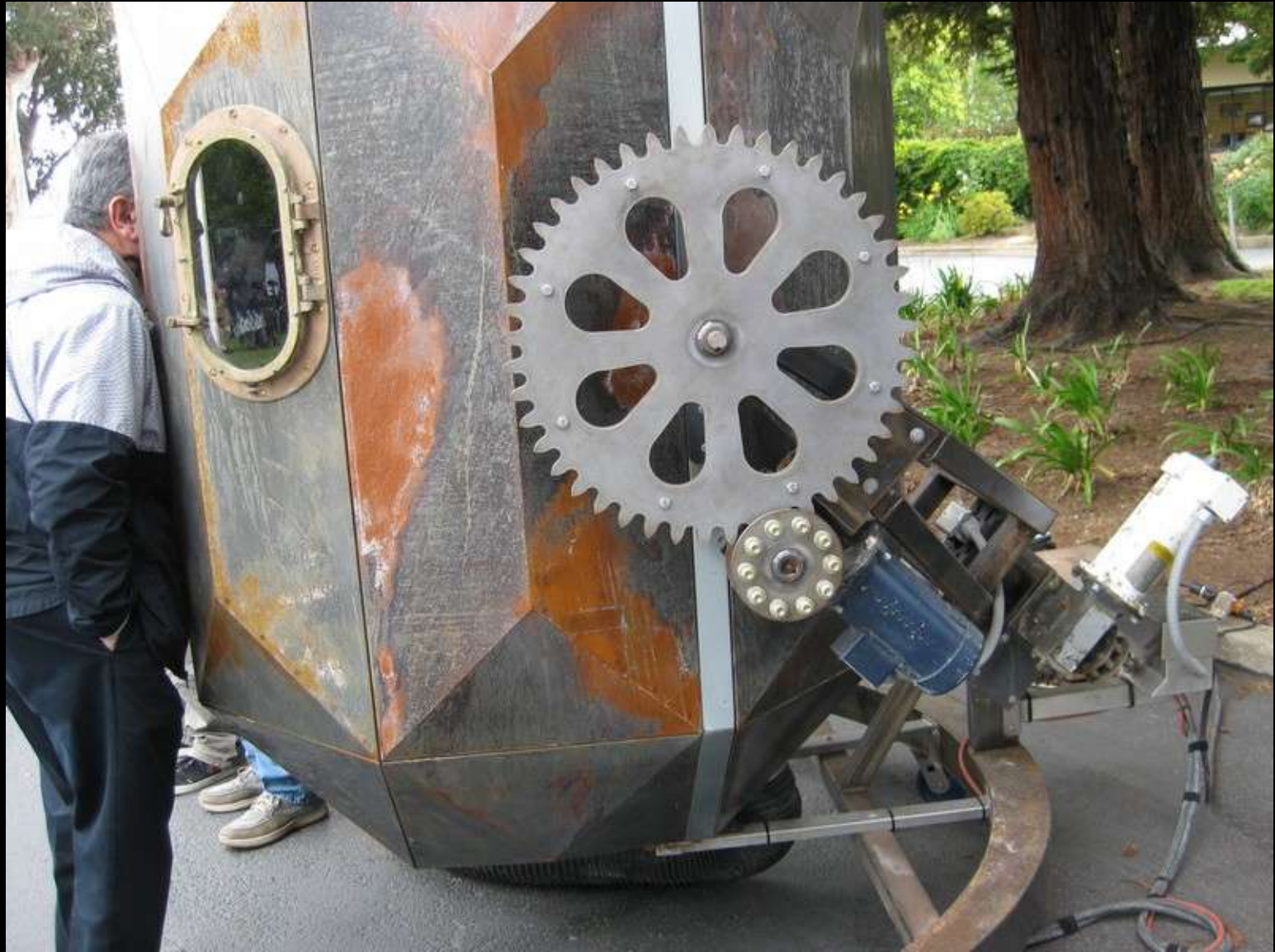






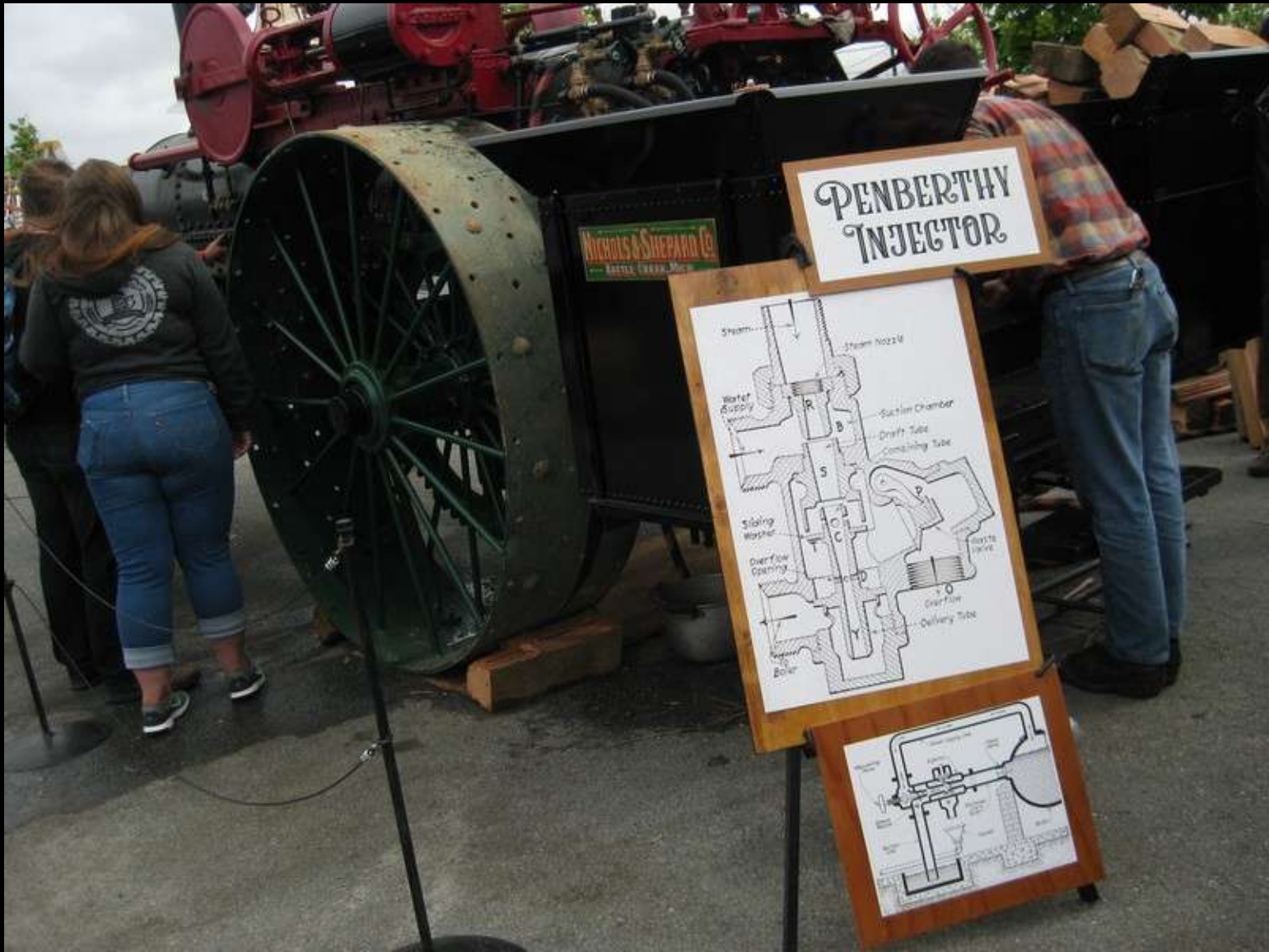




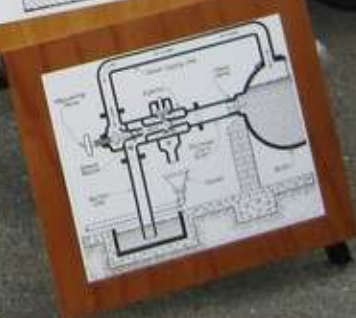
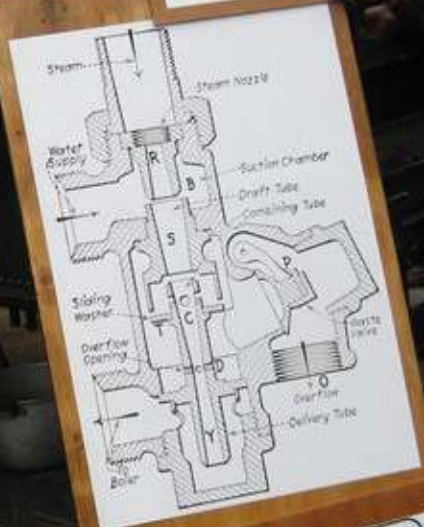








PENBERTHY INJECTOR

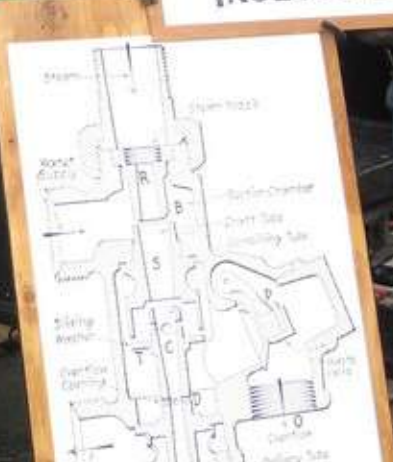


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PENBERTHY
INJECTOR







ALL POWER LABS

Local Energy, Food & Water

LOCAL CARBON NETWORK: LCN



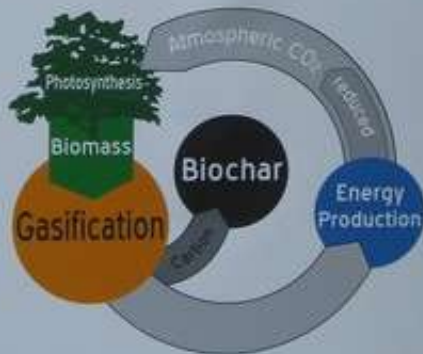
The Local Carbon Network

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.



BIOCHAR IS FABULOUS!

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RENEWABLE CARBON FUEL









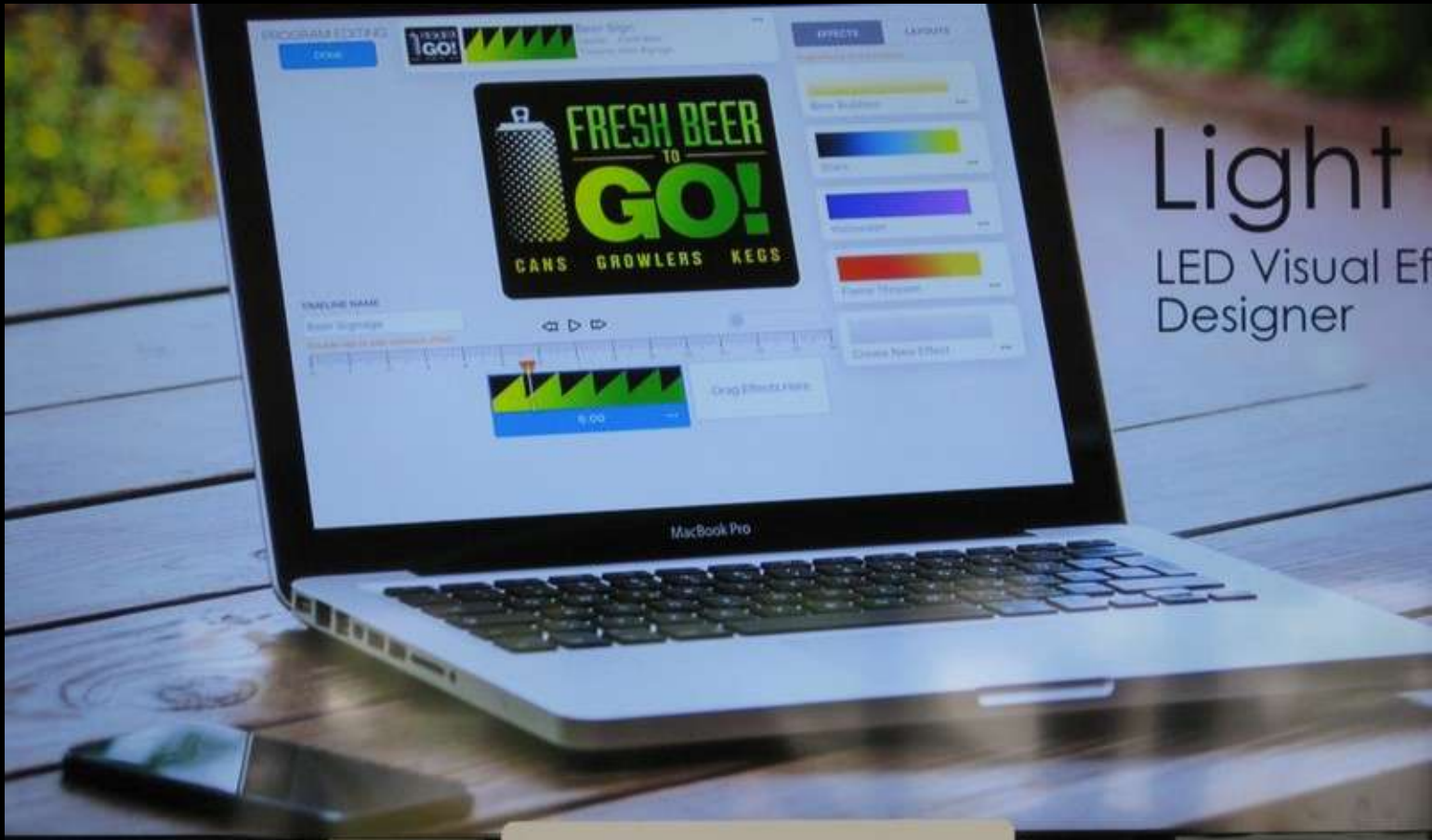




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Light
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The End