

www.waft-lab.com

HELMI HARDIAN

//SELECTED ARTWORK
(2019 - 2022)



HELMI HARDIAN

Helmi Hardian is a grassroots artist and ghetto scientist, with a specific interest in cooking and smoking at the same time. He lives in Surabaya, the city that is well known for its industry and technology, as well as being the center of electronic component trading (chiefly, Pasar Genteng). Hence, almost all of his works are closely related to science and technology as the medium of creativity. He is the co-founder of Waft Lab, a creative-based initiative that works at interdisciplinary practices. Currently, he focuses on tech development through DIY/DIWO culture and playing his role in researching, hacking, or deconstructing daily materials to provide some devices with new functional aspects, as well as developing workshop kits, lecturing contents, and presentation materials, which aim to learn, share, and exchange knowledge.

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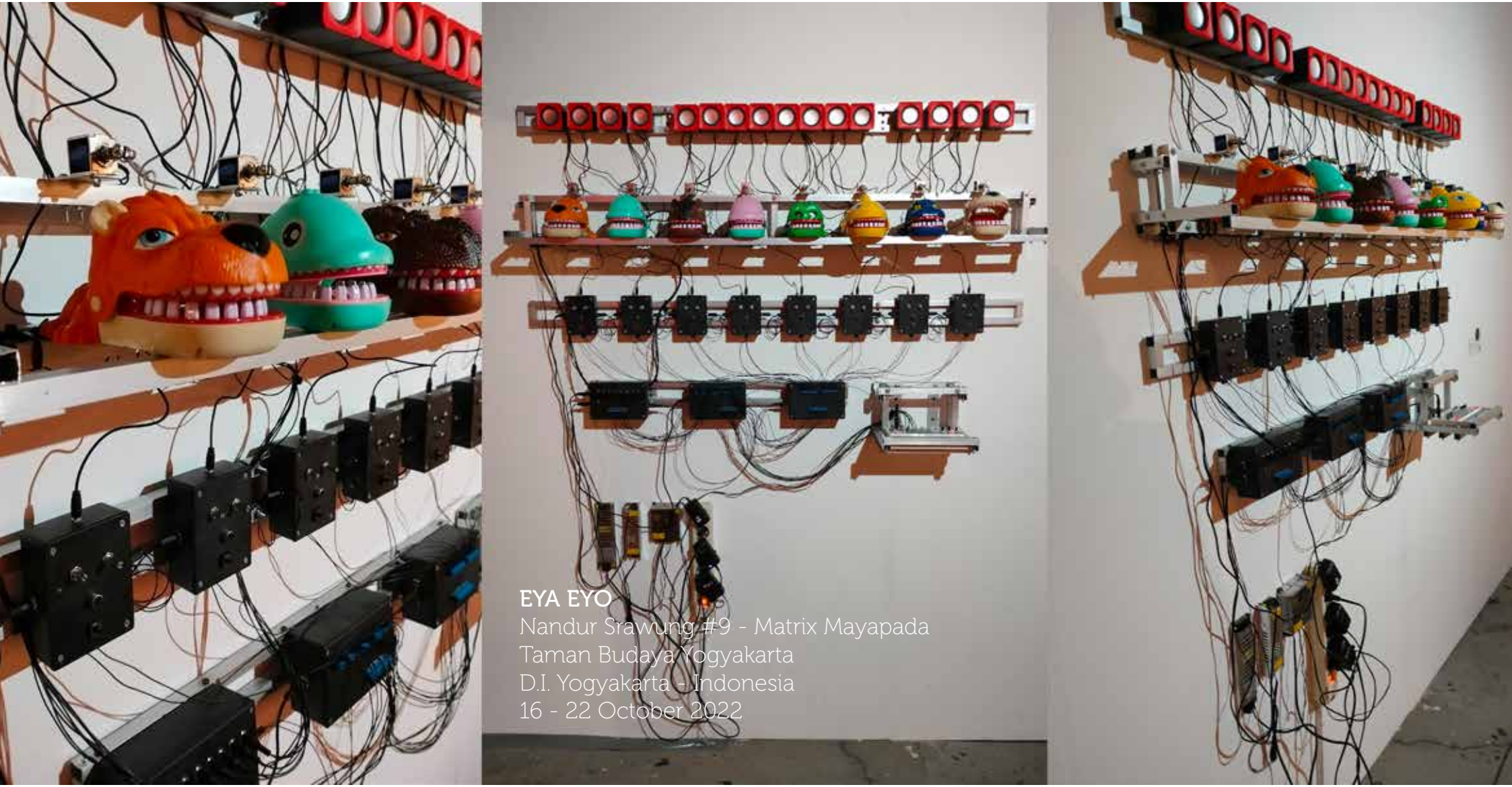
WANMENBEN

FSKM 2022- Festival Komunitas Seni Media

Taman Budaya Bengkulu, Bengkulu - Indonesia, 5 - 12 October 2022



Wanmenben (one-man band) is a work inspired by the phenomenon of multi-instrument buskers. How do they respond to the presence of technology, with so much waste electronic technology ignites the creativity of buskers to recycle and create an orchestra with a single player. The transition of functions and the use of improvised materials is very interesting to be developed and represented. With limited funds, many buskers make their own musical instruments from used goods such as gallons, pipe, or glass bottle caps can become musical instruments. Literally, musical instruments can be interpreted as all objects that can produce sounds, tones, and rhythms. Once again, this practice makes us aware that limitations are actually one of the big capitals for creating. Wanmenben's work consists of synthesizers that have been modified and connected to everyday objects, such as buckets, pot lids, and PVC or metal pipes. When the touchpad on the synthesizer is pressed, it is connected to a kinetic device that will hit or swipe the objects, producing a tone of sound that makes the audience fall in love.



Technology is present in every aspect of life, the role of technology is now too big in fulfilling human needs, ranging from education, communication and industry. Until then a new problem emerged from the use of this technology. Starting from the use with a specific purpose, the misuse of technology, to the use of it in vain. Eya Eyo's work reflects this phenomenon through sophisticated digital devices until it is modified so that their functions are forced back into analog devices. Eya Eyo's work consists of a factory synthesizer that has been modified and connected to children's toys. When the touchpad on the synthesizer is pressed it is connected to a kinetic device that will move the children's toys, also triggering a patterned sound recording that can produce a tonality that captivates the audience.

WHISTLE BY THE NATURE

Saujana Membumi // Part of Documenta Fifteen
Forum Wissen Museum, Gottingen - Germany
19 June 2022 - 25 Sept 2022



This work is a part of EgrexX installation, a depiction of the existence of a balanced biodiversity. By using a microcontroller with two probes attached to the plant, then translating the changes in the conductivity of the plant into an array of patterns, sent via MIDI data (Musical Instrument Digital Interface) triggering a synthesizer to play a series of rhythmic sounds. The pleasant tones that are produced are a representation of the conditions of the plants whose quality of life is maintained.



EGREXX
Saujana Membumi
// Part of Documenta Fifteen
Forum Wissen Museum, Gottingen - Germany
19 June 2022 - 25 Sept 2022

Nature provides everything we need. Hence, we are responsible for preserving and conserving biodiversity. One of the causes of biodiversity disasters is the wrong method of harvesting fruit. Most of the time, people cut the trees and then proceed to pick the fruits. This method results in long harvest cycles and poor soil balance which caused the trees to die and eventually leads to scarce tree species.
Picking fruits straight from the trees with a tree pruner overcomes this problem. What's better is that the popular tool has diverse methods, types, names, and systems. Here, EgrexX shows the easy way of constructing these tools from household appliances which we often encounter in daily life. Apparently, this kind of action requiring less cost and time holds a great role to sustain environmental balance.



MYTH & MATCH

Saujana Membumi
// Part of Documenta Fifteen
Forum Wissen Museum,
Gottingen - Germany
19 June 2022 - 25 Sept 2022
Work with Uncletwis

During the residency program in Pematang Kabau, we built a nongkrong space (gathering place) as well as a work-space. At that time many local people came, just to hang out and talk with us. The topics of interest is the role of myths in maintaining the balance of nature. The most famous story is about the white crocodile guarding the Sungai Hitam river, that local residents also take care of the environment there so that the white crocodile does not interfere. There is also an eagle that goes around the hill as a sign that the balance of nature is in the best condition. Then there is the buffalo beetle as a marker of harvest time has arrived. The kingdom of the Beruk was victorious in its golden age. Then the sacred giant fish called Baung. These stories inspired us to represent that folklore through the installation, its combination of the popular superhero and the legendary mythical figure.



RATAPAN ELANG
Saujana Membumi // Part of Documenta Fifteen
Forum Wissen Museum,
Gottingen - Germany
19 June 2022 - 25 Sept 2022
Work with Rani Jambak, Uncletwis, Desi Indri Setyaningsih

MEGALITH TELEPORT INTERNATIONAL

21-23 January 2022 - Size: 150 x 150 x 300 Cm
Materials: Microcontroller, vco, various sensors, LED, bamboo, aluminium, concrete
Work with Waft Lab at n0lkecil Creative Space, Surabaya - Indonesia
Supported by British Council - Connection Through Culture

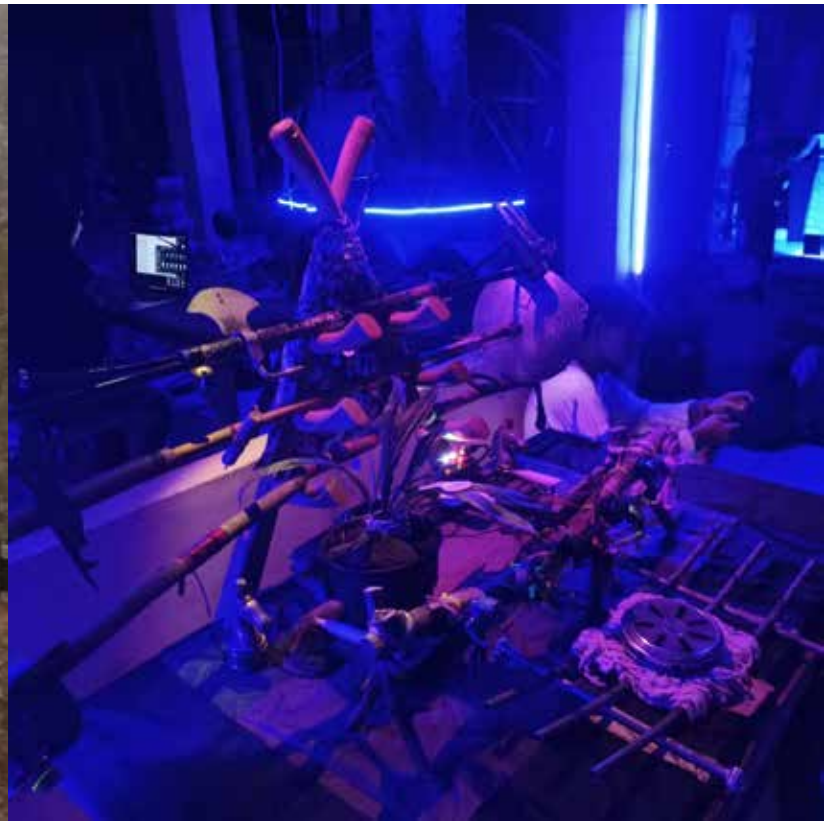




In this digital residency, 4 artists from Surabaya, Indonesia (Helmi Hardian, Uncletwis) and The Isle of Lewis, Scotland (Robbie Thomson, Alicia Matthews) explored ancient megalithic sites in each country to develop ideas on community, technology, and communication. Here, the artists exchange information on local identities in megalithic era through the internet. The result is the teleportation of Callanish Standing Stones to n0lkecil Creative Space in Surabaya, Indonesia.

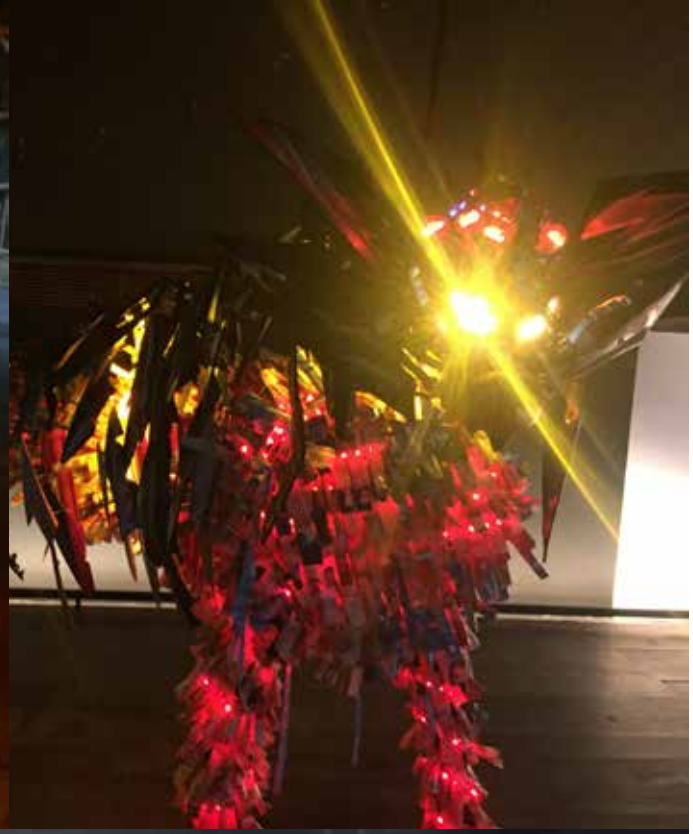
EgrexX
12-13 March 2022 - Size: 150 x 100 x 100 Cm
Materials: Microcontroller, DIY galvanometer, household appliances, wood and bamboo
Work with Uncletwis, presented at Semah Bumi Festival by Rumah Budaya Sikukeluang
Artist in Residence, Pematang Kabau - Indonesia, Research of CRC990
Supported by Documenta Fifteen, Forum Wissen





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ROH ARUS

4 September 2021 - Semi Permanent
Size: 550 x 400 x 300 Cm
Materials: Microcontroller, LED, plastic snack waste used body cover of a motorcycle, 3D animation
Work with Ican Harem, Pinky Girl, Ir. Sentor
Presented at Potato Head, Seminyak, Bali - Indonesia

The collaboration of 4 artists, Helmi Hardian (Surabaya) Ican Harem and Pinky Girl (Bali), and Ir. Sentor (Tangerang) is presented semi-permanently at Potato Head, Seminyak, Bali, Indonesia.
Here, they combine diverse waste materials to create a body of work. Helmi Hardian assembled the used motorcycle cover, added led installation and set the framework. Ican Harem and Pinky Girl designed the costume from plastic snack waste collected by a non-profit organization, Sungai Watch. And lastly, Ir. Sentor transformed it into 3D animation.

ROH ARUS (Second Exhibition)
10 October 2021
Size: Various Sizes - Materials: Video Performance, 3D Animation
Work with Ican Harem, Pinky Girl, Ir. Sentor
Present on NeoShibuya TV, Shibuya, Tokyo - Japan

The process of creating this multimedia artwork combining art performance, light, and 3D animation was done in Bali. Organized by Neo Shibuya TV, this work is displayed in Shibuya, Tokyo - Japan.







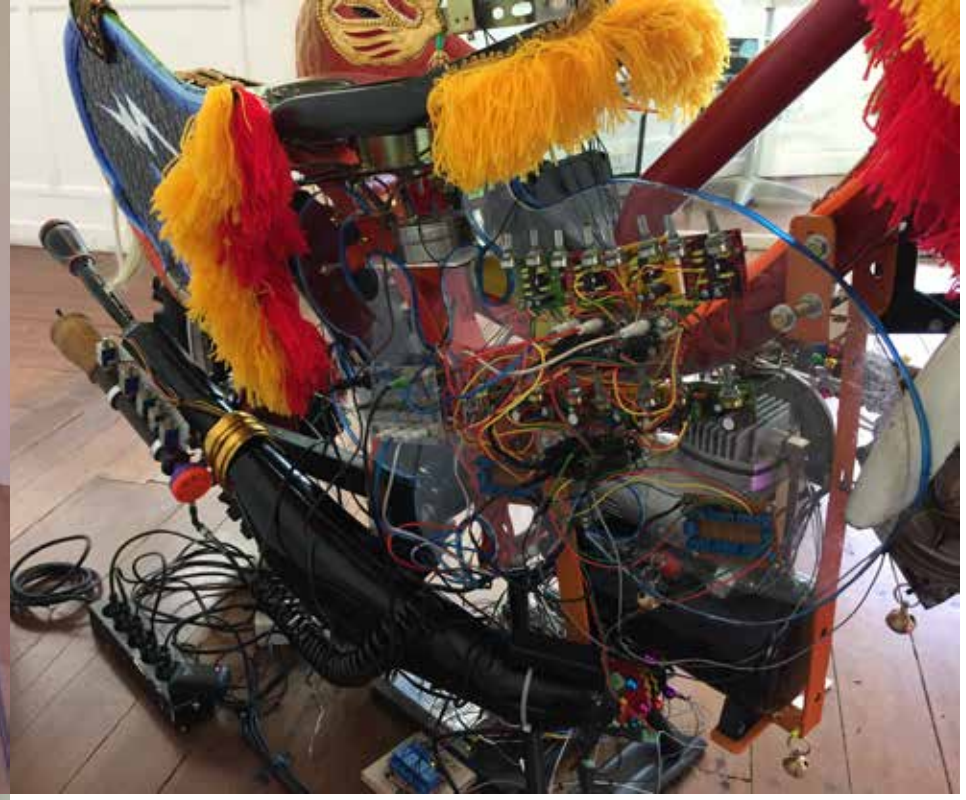
4R03M M4N135 C3L4L03 (Arum Manis Selalu)
1 - 17 November 2021
Size: 184,5 x 114 x 276 Cm - Materials: DIY mechatronics, LED, motorbike, stove, sugar
Presented at Kultur Pangan, Tangerang Selatan - Indonesia





Diverse cultures shaped Indonesian culinary for decades. We can trace the taste of diversity in every traditional dish and cooking method. Thus, we should give tribute to street food vendors for their essential role in developing a signature culinary-from name, taste, shape, and packaging to selling method-of a certain area. These street food vendors incorporate technology in their selling strategy to attract customers. Interestingly, they often use electronic equipment waste. The upgraded function and the act of improvising materials are quite appealing to be represented, both technically and artistically. This also reminds us that limitations are actually one of the values of creation.
This work is one of the efforts of paying homage to these grassroots technology practitioners.







SOLAH CELENG
Size: 220 x 90 x 120 Cm
Materials: Microcontroller, DIY mechatronics, air compressor motorbike frame and sparepart, LED, electronic component
Work with Waft Lab at:
Open Possibilities:
There is not only one neat way to imagine our futures
Organized by The Japan Foundation Asia Center,
NTT InterCommunication Center [ICC]
(Nippon Telegraph and Telephone East Corporation)

6 - 21 December 2019
JCC, Singapore

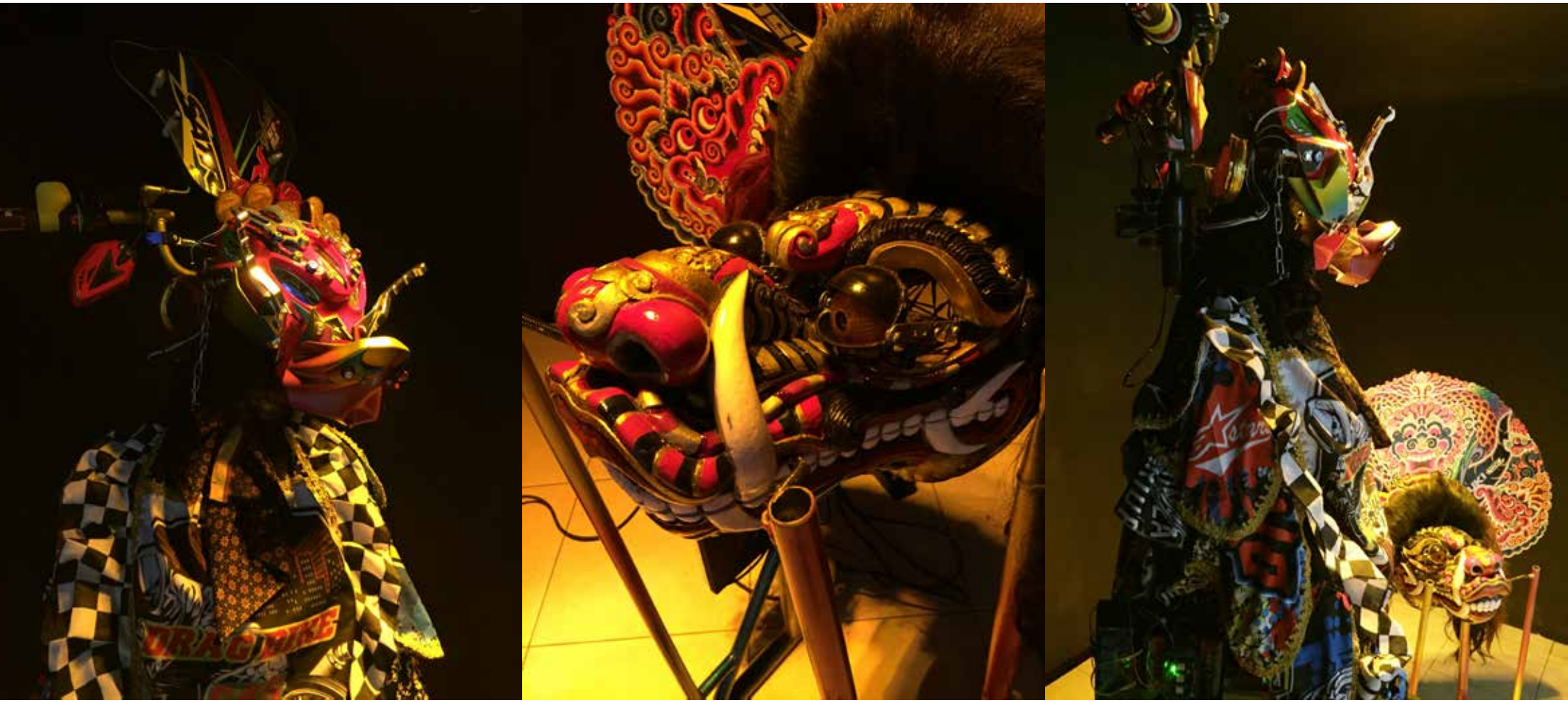
20 January - 1 March 2020
NTT ICC, Tokyo - Japan

Enjing Mbarong - Dalu Herex

20 - 26 September 2019 - Size: 200 x 200 x 300 Cm

Materials: Microcontroller, motor dc, motor stepper, motor servo, various sensors, wood, used body cover of motorbike

Sinkronik - Pekan Seni Media - Taman Budaya Kalimantan Timur, Samarinda - Indonesia



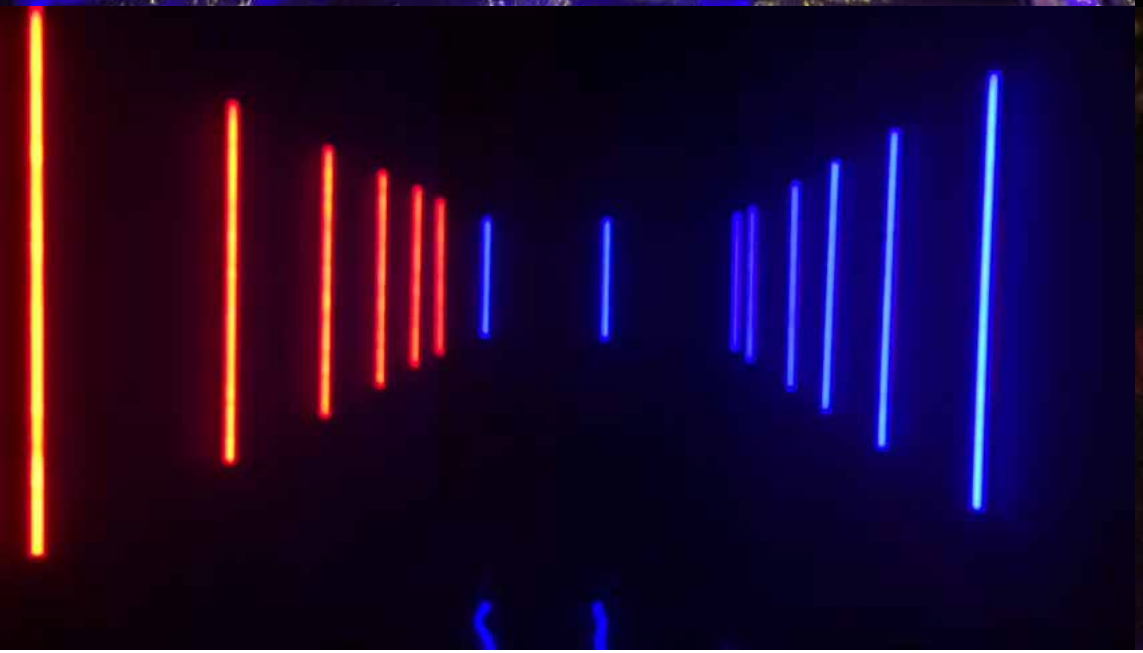
Jaranan, a traditional art performance originated from East Java, experienced ups and downs from time to time. Throughout the years, the performance gradually changes from its role as guidance of life to merely entertainment for tourists or even as media for political campaigns. Moreover, this phenomenon shifted the interest of younger generation.

At the same time, modified motorcycle racing known as Herex emerged. This adrenaline rush with high prestige value act equally related to Jaranan. Both found the common ground: Intense art performance from East Java.

Equipped with a mechatronic system, the work combined aesthetic elements of Barongan's (part of Jaranan) modified head and Herex.









LUME - Lucid Dream
20 December 2019 - 1 March 2020, Size: Various sizes
Materials: Microcontroller, various sensors, Led TL,
Led strip, wood, acrylic, and plastic
Commission work with Waft Lab
Presented at Pakuwon Mall Lt. 2M, Surabaya - Indonesia

The basic idea of this work is a playground to stimulate the five senses. Here, the audience were prepared for an adventure in the world of light with various optical effects, all for an unforgettable visual experience.



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HELMI HARDIAN

//SELECTED WORKSHOP



Dudul Muni

D.I.Y Plant Waves
June 21, 2022
Forum Wissen Museum,
Gottingen - Germany

In this workshop we will learn about conductive, anything that can be conducting electricity. And capacitive (specifically in electronics, it is something that can absorb and keep temporary electrical energy). The kits that we will assemble can run commands just by our finger touch through surrounding objects that have conductive properties, including plants.

Kerlap Kerlip Ceria
June 28 2022
Documenta Fifteen, Fridericianum Museum,
Kassel - Germany





This workshop is for parents and kids, running by rurukids during Documenta Fifteen, we will earn how to make simple interactive lights using analog methods in a fun way. After that we also learn about electronic components that related with lighting.













Bright Future:
DIY LED Workshop

Open Possibilities:
There is not only one neat way to imagine our futures

Monday, January 13, 2020
NTT InterCommunication Center [ICC]
Tokyo - Japan

This workshop highlighted DIY wearable technology which is popular in certain generations. We utilized microcontrollers and led strips in an accesso-ries-assembling workshop. During the workshop, we collaborated with Yang2 and Gyaru-den.

Titen - Teliti lan Telaten

Lokakarya Seni Cahaya (Light Art Workshop)
Addressable LED + Computer
25 April 2019 at Waft Lab, Surabaya - Indonesia



Supported by the Ministry of Education and Culture through the Directorate of Media Arts, Waft Lab held a light art workshop for 5 days. The agenda ranged from the basic knowledge of light art, controlling light with microcontrollers, and programming light using computers and networks.

NATIVE ELECTRONICS

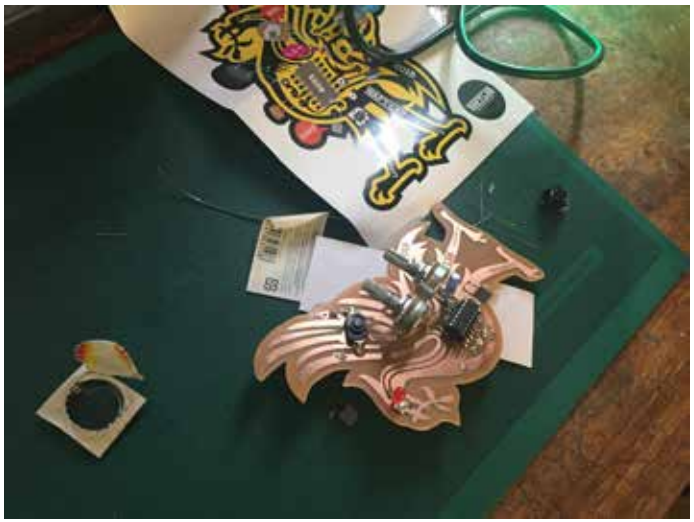
Sandbach High School and Sixth Form College
20 September 2018
Supported by British Council, FACT Liverpool

Sandbach High School is a girls academy school in Sandbach, Cheshire, England. It is locatedon 10 acres of grounds at Middlewich Road, Sandbach, a 15th-century market town in Cheshire. The school was judged as "Outstanding" by the government inspectorate Ofsted in 2008










The workshop focused on building D.I.Y sound instruments as well as assembling the simple electronic circuit. Here, the light sensor acted as a tone modifier to control the sound output.









NATIVE ELECTRONICS

Congleton High School
Congleton High School is an 11–18 mixed secondary school and sixth form with academy status in Congleton, Cheshire, England. It has a specialism in engineering.

18 September 2018
Supported by:
British Council, FACT Liverpool

The workshop focused on building D.I.Y sound instruments as well as assembling the simple electronic circuit. Here, the light sensor acted as a tone modifier to control the sound output.

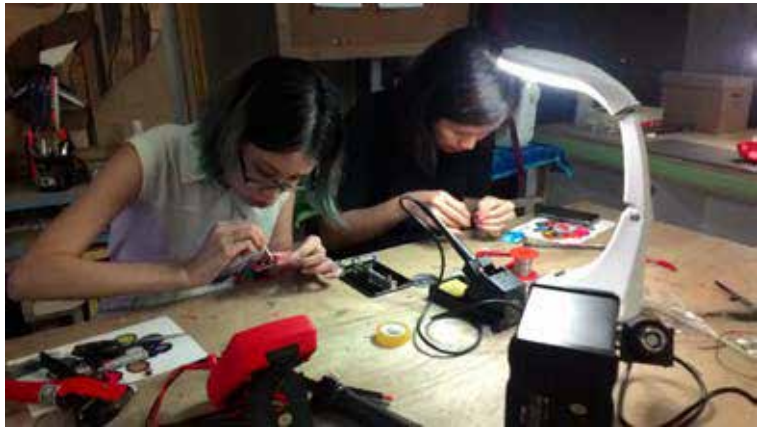


DAC // Digital Art Center | February 13th 2014 | Taipei - Taiwan

Another Drawdio workshop held in Digital Art Center, Taipei, exactly one day before Valentine. This workshop held on 13 February at 13 o'clock and the numbers of participant are 13 persons. This triple lucky thirteen, made this workshop very interactive. The participants were being active to ask; even they already thought to modify their kits.

ThaiTai : A Measure of Understanding, artist in residence program

STILL LO-FI YOU - Prototyping Lab @NDC National Design Centre, Singapore








The workshop conducted experiment and exploring basic electronic circuits as a sound instrument. The sound output can be changed by various simple controller which functions as a tone modifier, like potentiometer, light sensor, graphit, water etc. The participant also could add or change the capacity value of certain component until they find several tones according their expectation.

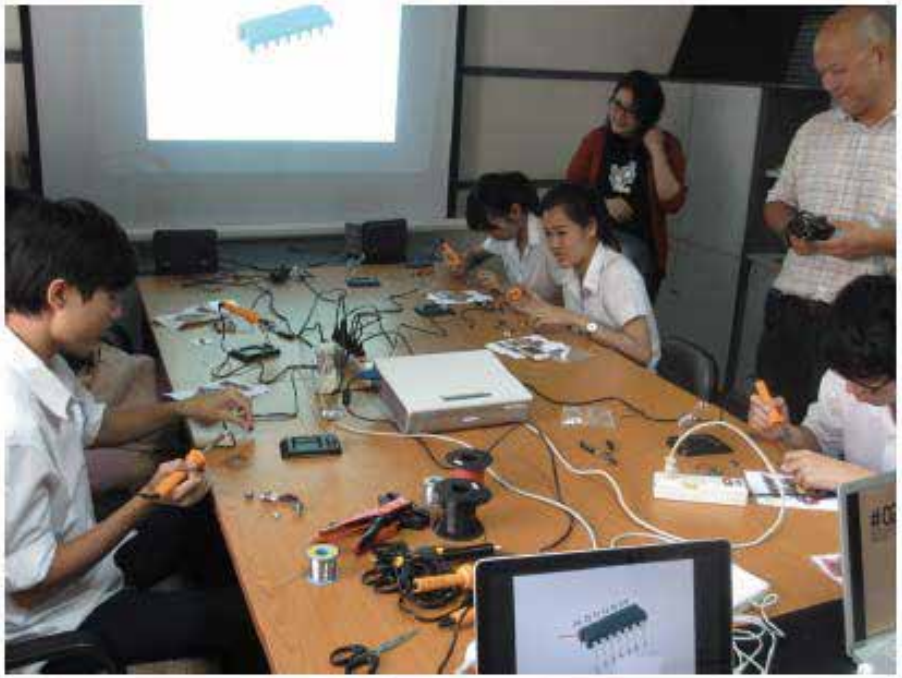
InnovASEAN: SEA Makerspaces Summit (SEAMNET) 2015
by Southeast Asia Makerspace Network
SG Makers Association Ltd organized the first Southeast Asia Makerspace Summit from 5-7 June 2015 in Singapore.

This Summit gathered 80 key influencers involved in maker-space operations from seven ASEAN member nations in Singapore.



PURE DATA Workshop | April 8th 2013 | Ratchaburi - Thailand

On the last day of Metrosapiens : Dialogue in The Cave program, Ratchabury - Thailand, Waft Lab representatives do a presentation of Waft Lab's activities and agendas. Then they conduct a pure data workshop for students of Media Art, Silpakorn University.



PREI NANG THAI (Holiday in Thailand)
Monday, July 23rd 2012 | Chulalongkorn University,
Phayathai Road, Pathumwan, Bangkok - Thailand
Is a series of presentation, workshop, and sound project.
This program presented by Waft Lab - Indonesia
Supported by: JIANDYIN, Tao Hong Tai : DKunst
and Chulalongkorn University - Thailand.





PREI NANG THAI (Holiday in Thailand) at Chulalongkorn University, Bangkok - Thailand.

MOBILE LAB

The purpose of this project is to spread knowledge in wider reach, started from small villages to big cities.
To that end, we modified an old van into a mobile laboratory for workshops.













