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https://github.com/hackerspacesg/booths/wiki/Maker-Faire-2018

Why does this service exist?

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Maker Faire 2018 - hackerspacesg/booths GitHub Wiki

Equipment and logistics

Location	Item	Responsible
Roland's place	USB-RS232 adaptor (if Joyce requires)	Roland
.	Trolley, Gazebo, table, fold-up chairs, cordon rope	Roland
HackerspaceSG	Pull-up banners: 2*HackerspaceSG, 1*Amateur Radio	Roland
.	suitcase: 10*A3 stands, Duct tape, power strips, HF radio kit, HT	Roland
.	Buddipole kit	Roland
Joyce's place	3*HackerspaceSG notebooks and plugpacks	Joyce

Space

A set of ~6 2m*2m booths near each other, each with a 1.2m*0.6m table, two chairs, and a power socket.

(No allocated outdoor space at all this year.)

People

(as below, plus Dyana as floating cover and tear-down on the 19th)

Description

ACTUAL project name (name for the stuff/ projects your group are working on)

Radio, Biology, Magnets and Microscopes.

ACTUAL photo of their project (photos of the stuffs you are showcasing in MF 2018)

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OpenFlexture Microscope

(TODO: assemble collage)

Project synopsis (a short synopsis about your group/projects)

Radio

- Voice communication thousands of km from mountain-tops and from Pulau Ubin: building and operating portable stations.
- Voice communication via satellite: long-range communication with small antennas.
- Narrow-band packet radio: medium-range digital communications with AX.25.
- Drone antenna: improving the performance of a very small antenna on board a drone.

Biospacesg//duct tape labs

Curious about experimenting at home? Tired of baking soda volcanoes, how about using microbes for power or to generate products. Or some electrophysiology with EEG, EMG and ECG. And finally about starting a home lab with some diy lab equipment and automation. This and plenty of other interesting demos and interactive activities.

Magnets

3D-printing atomic models with inserted magnets.

WaterScope / OpenFlexture Microscope:

A 3D-printed Raspberry-Pi-powered WiFi microscope. The Openflexure microscope a microscope design that uses 3D printing and the general purpose low-power raspberry-Pi to effectively re-purpose existing 'off the shelf' devices into a low-cost microscope. 3D printing and non proprietary tech enable remote locations and resource poor environments to build, service, and maintain locally. Observing the microscope is via the WiFi hot-spot it creates for itself. Multiple wifi capable devices are able to connect to it simultaneously, making shared / collaborative / class-room setting sessions viable.
**Bring your smart-phone, connect to the microscope's wifi and see for yourself! **

Group bio (a short descriptions of your group's members)

- Roland Turner 9V1RT: Technologist, dancer, radio operator.

- Joyce Ng 9V1AN: Radio engineer. (Sat before 10AM)
- Chow Loong Jin: 3D-printerist, battery hacker and drone operator. (Sat)
- Darin Lobo: Open biologist.
- Yasaman Nem: Open biologist.
- Eugene Ng: Hacker of magnets.
- Saad Chinoy: Professional geek and microscopist.
- Dyana Wu: Discrete geek. (Sat)
- Marco Antonio: Robot vision specialist. (Fri, meet at HackerspaceSG 9-10AM)

Paperwork

Signed Agreement

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