



- 1. What's wrong with loT?
- 2. How can Open Hardware and Open Software help?
- 3. My journey so far
- 4. The future...

Reliance on Distant Servers



Surveillance Capitalism



At the Whim of Tech Co's



Nest is permanently disabling the Revolv smart home hub

Starting May 15th, the Revolv hub and app won't work

By Nick Statt | @nickstatt | Apr 4, 2016, 3:40pm EDT

Via Arlo Gilbert (Medium) and Business Insider | Source Revolv















Ethics/Sustainability





Materials Energy Toxicity Matrix

Designing out waste matrix template.

Thanks to ThingsCon 2018 and @mrchrisadams excellent talk on Reducing Carbon In the Digital Realm at Festival of Maintenance

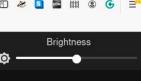
ThingsCon 2018 Designing out Waste Based on the MET Matrix from TU Delft Design Guide	Extraction of Raw Materials	Design & Production	Packaging & Distribution	Use & Maintenance	End of life Disposal
Materials Material as an input mined, grown, harvested)	What are the materials used?	What processes are used to make it?	What kind of packaging is used for the item and in transit?	What consumables are used by the product? What is needed to keep it working?	Which bits can be recycled? Are their local recirculation schemes for them?
Energy Energy used	How much energy is used to get the materials you use?	How much energy does the	How easy is it to transport? How	How much power does it use? How much energy is used	How much energy is used to treat the

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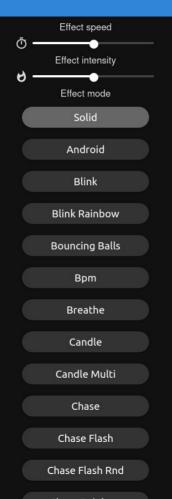


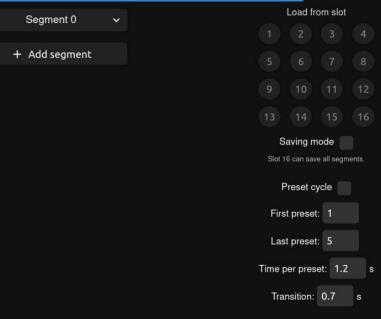
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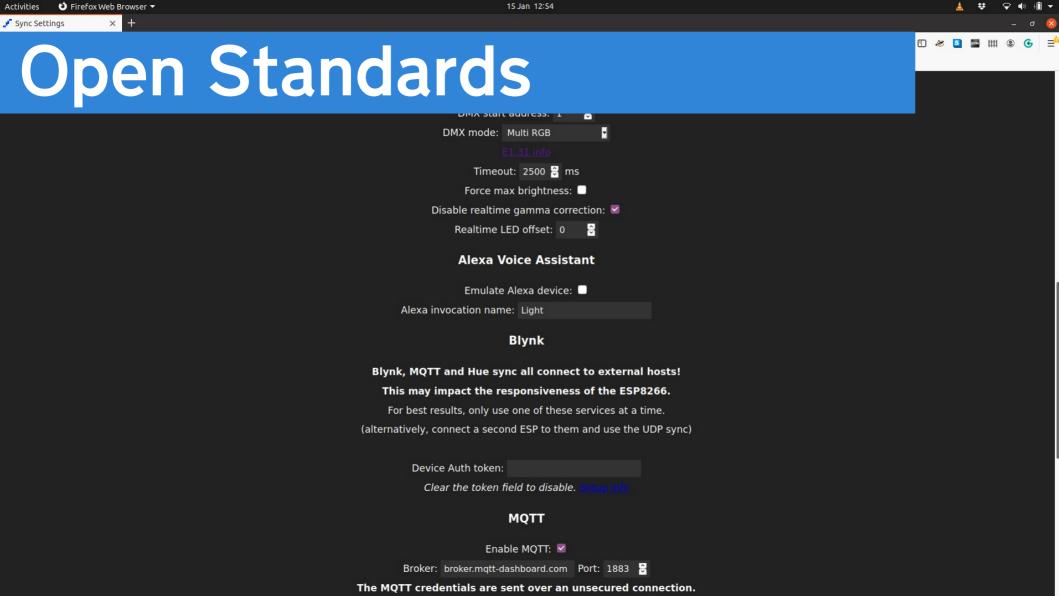
Data and UI On Device

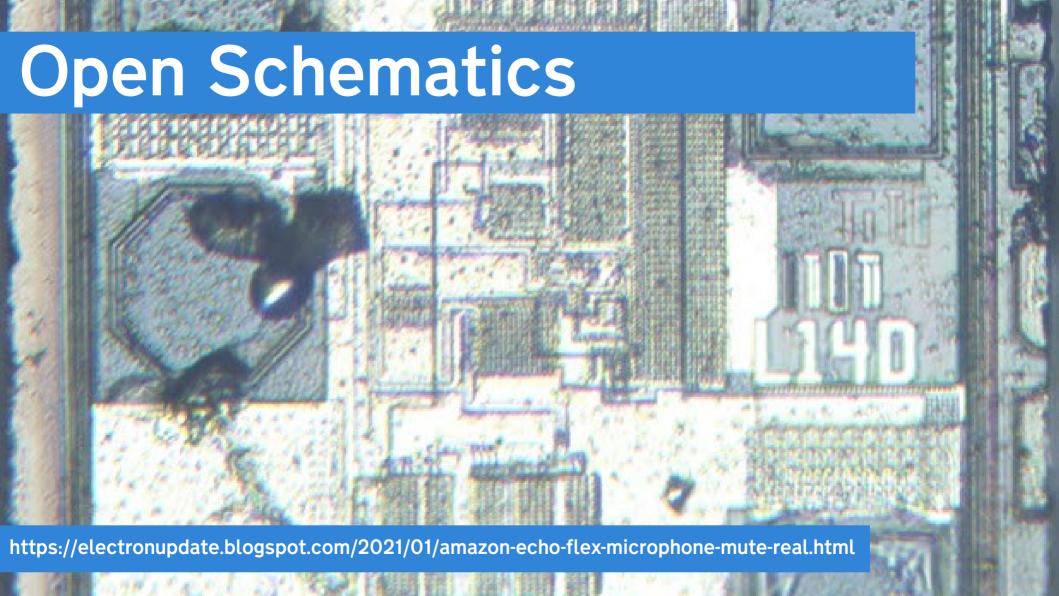




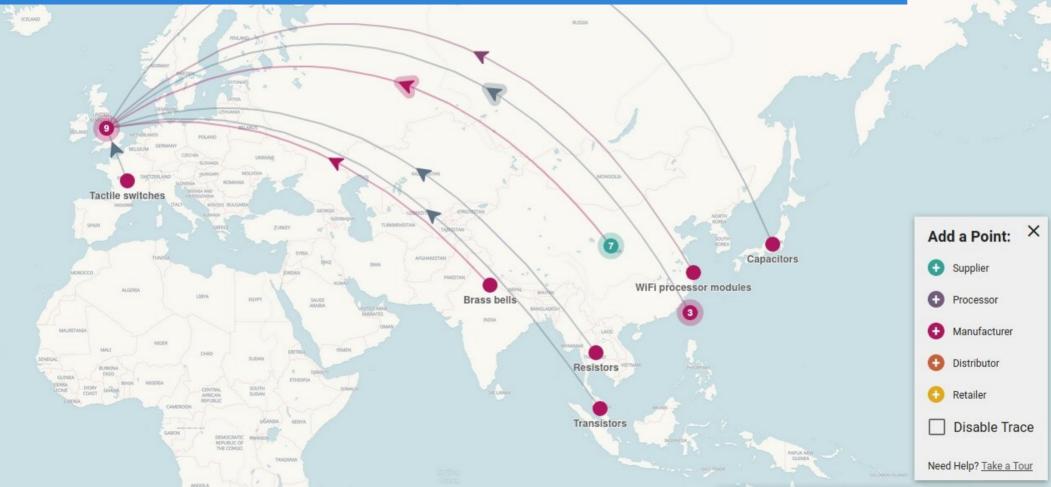








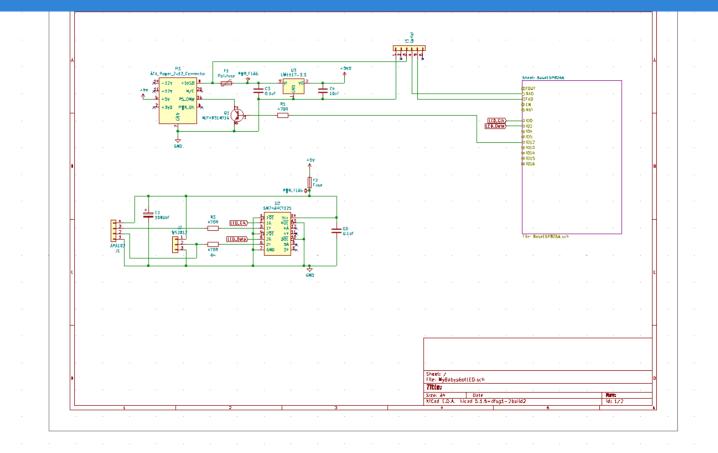
Open Supply Chains?



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I KiCad ▼ 15 Jan 11:43

Kicad: Schematic





























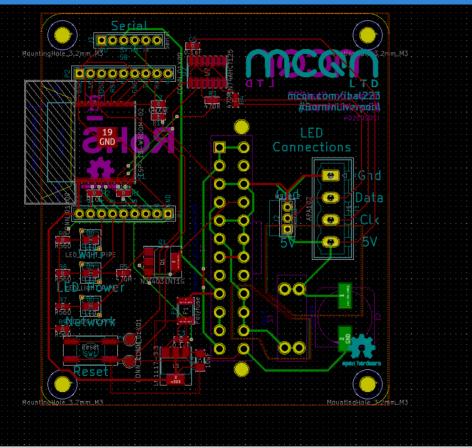








Kicad: PCB layout





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9

6

Nodes

Track Segments

Nets 39

Unrouted

X 71.628000 Y 56.007000

dx 71.628000 dy 56.007000 dist 90.925

grid X 0.127000 Y 0.127000

PCB Manufacturing

- * OSHPark https://oshpark.com/
- * JLCPCB https://jlcpcb.com
- * European Circuits https://european-circuits.co.uk
- * Many more...

Toward Utopia for the Many

The future I want embodies different values.

I want my home to be voice controlled – but I want it without centralised data capture.

I want car-sharing schemes and last mile delivery – but I want it to operate through mutualism and co-operatives.

I want home security drones — but I want them to make their domestic visual index available to a private app so I can text-search my bookshelves for that book I can't lay my hands on, rather than them using it to train their ad targeting A.I.

Privacy. Agency. Mutualism. Equality.

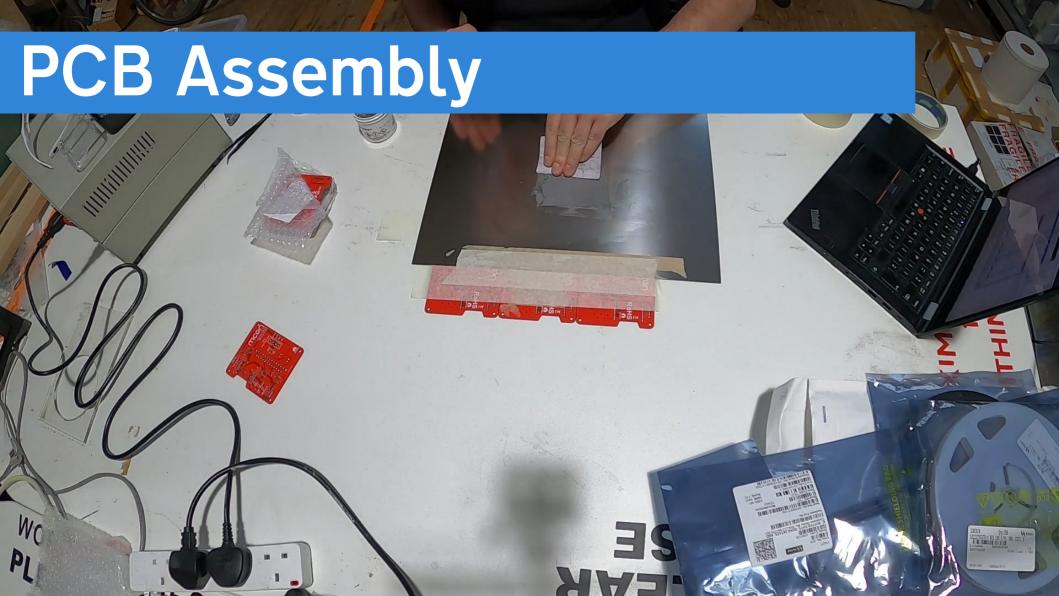
I'm not saying these futures are impossible, but they feel hard to reach from where we are right now.

Because honestly, it feels like I don't get to choose, *we* don't get to choose, those futures.

http://interconnected.org/home/2020/12/11/thingscon

surrounds our tribe

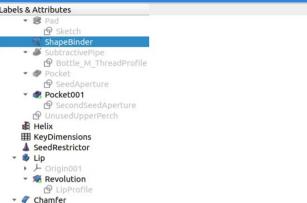
or designers, recimologists, and rounders. It's an unose adjacent tribes that



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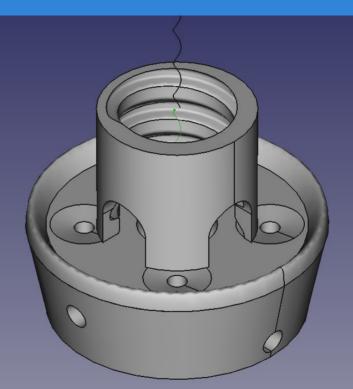
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FreeCAD



Value Property Trace Su... false

ShapeBinder



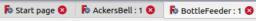




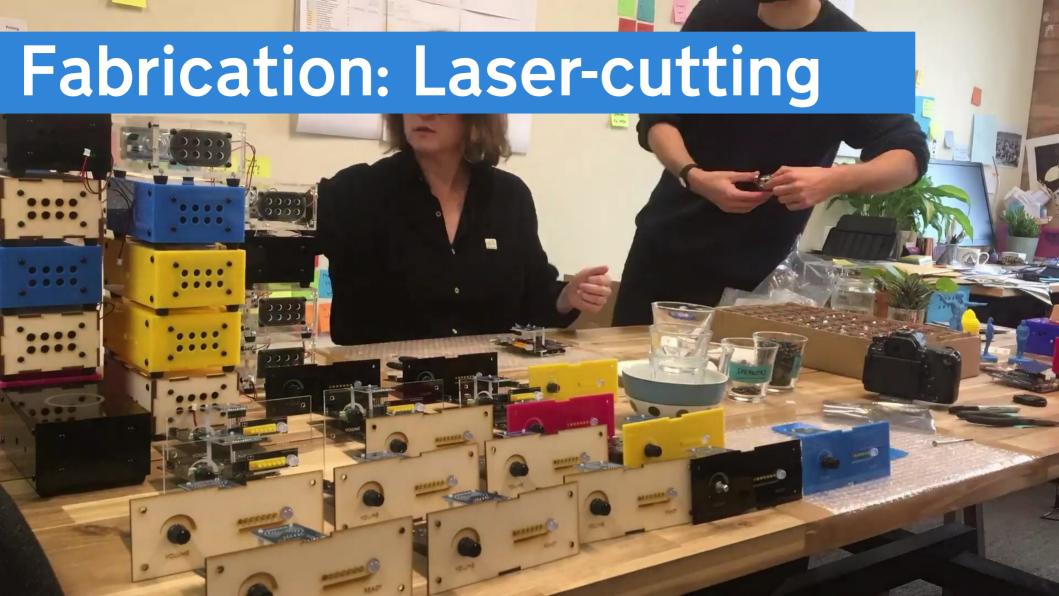


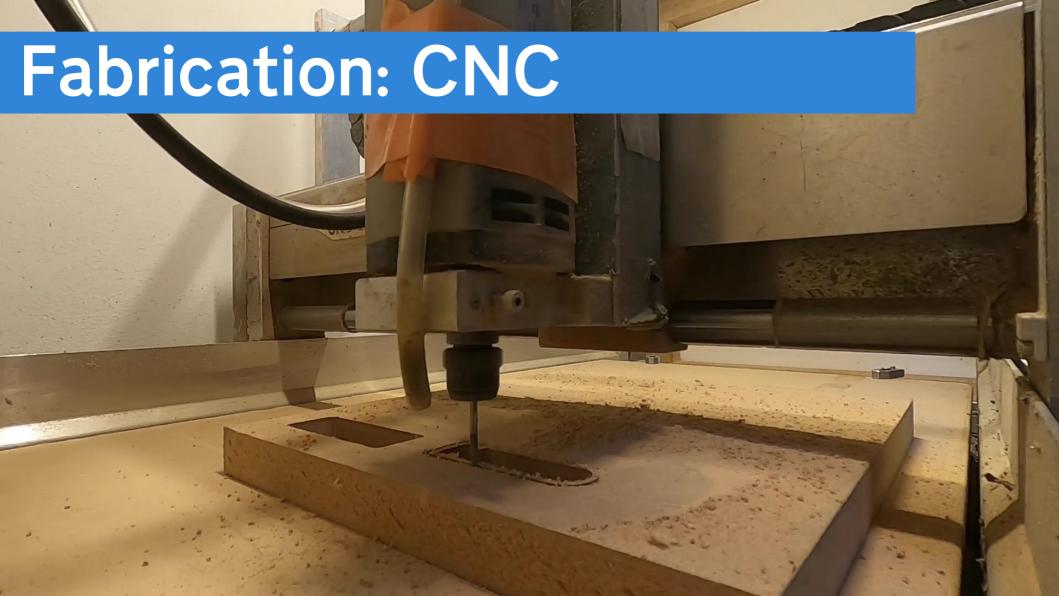














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Thank you.

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