

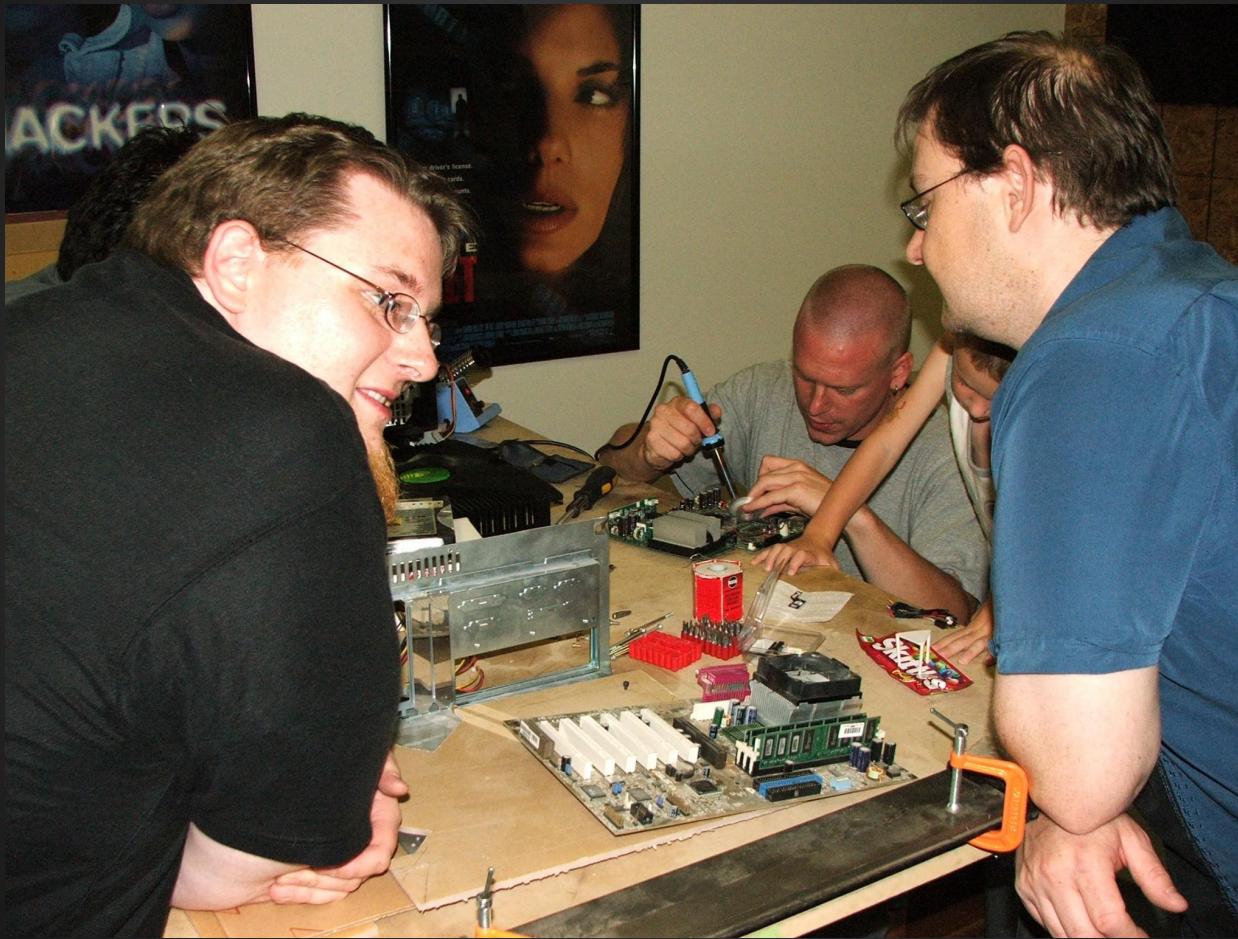
# Hackerspaces

# Who am I?



d3c4f

# Founder of HackSLC (2009)



# Founding Sponsor MakeSLC (2009)

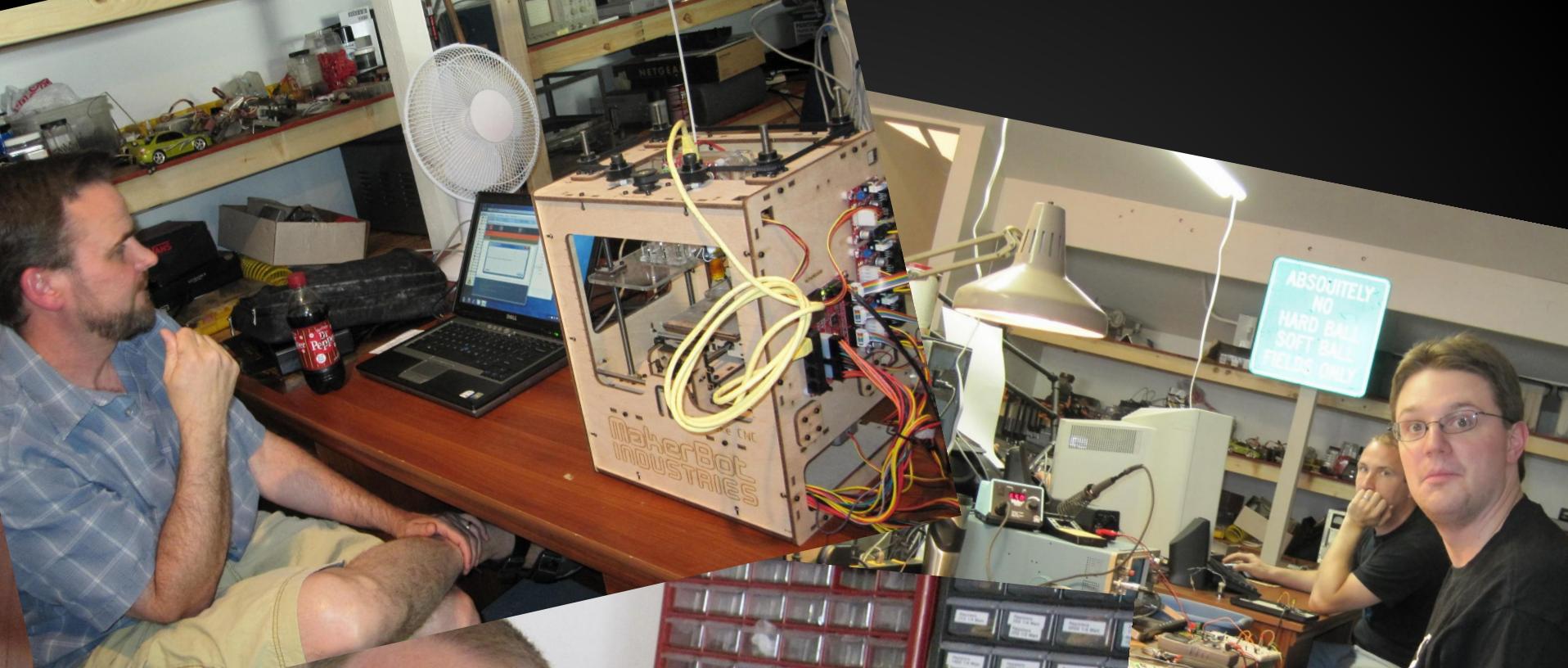


# Founder of TheTransistor (2010)













1. **What is a hackerspace and why would you possibly want to start one?**

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**Hackerspaces.org -**

"Hackerspaces are community-operated physical places, where people can meet and work on their projects."



# 1. **What is a hackerspace and why would you possibly want to start one?**

## **Wikipedia.org -**

"A hackerspace or hackspace (also referred to as a hacklab, makerspace or creative space) is a location where people with common interests, often in computers, technology, science, digital or electronic art (but also in many other realms) can meet, socialise and/or collaborate. Hackerspaces can be viewed as open community labs incorporating elements of machine shops, workshops and/or studios where hackers can come together to share resources and knowledge to build and make things.

Many hackerspaces participate in the use and development of free software, open hardware, and alternative media. They are often physically located in infoshops, social centers, adult education centers, or on university campuses, but may relocate to industrial or warehouse space when they need more room."

# Obligatory CCC History





- :: One of the first hackerspaces
- :: Based in Germany
- :: Formed around 1981

# **Other subsets / similar groups**

**∴ Electronics Clubs**

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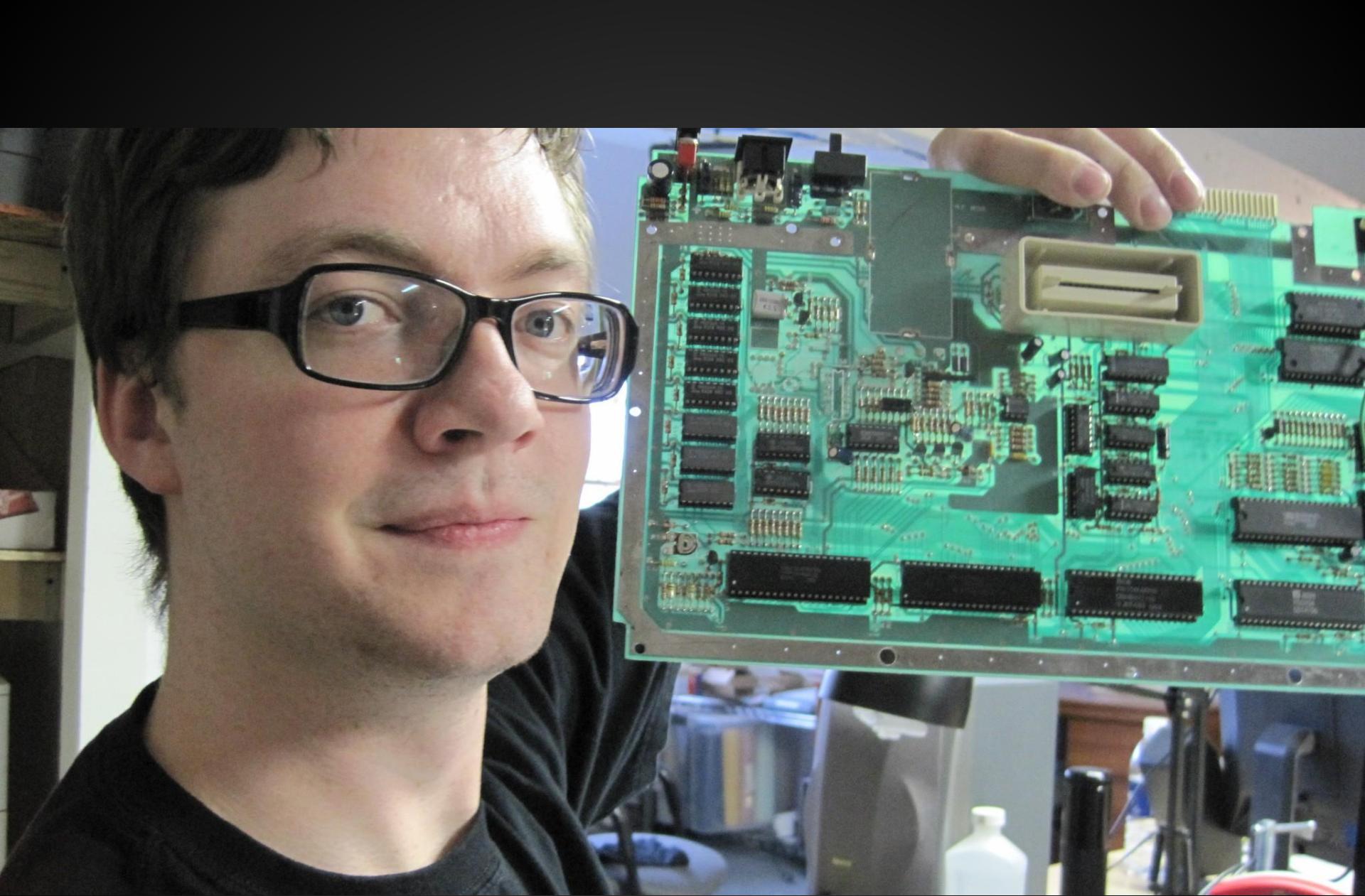
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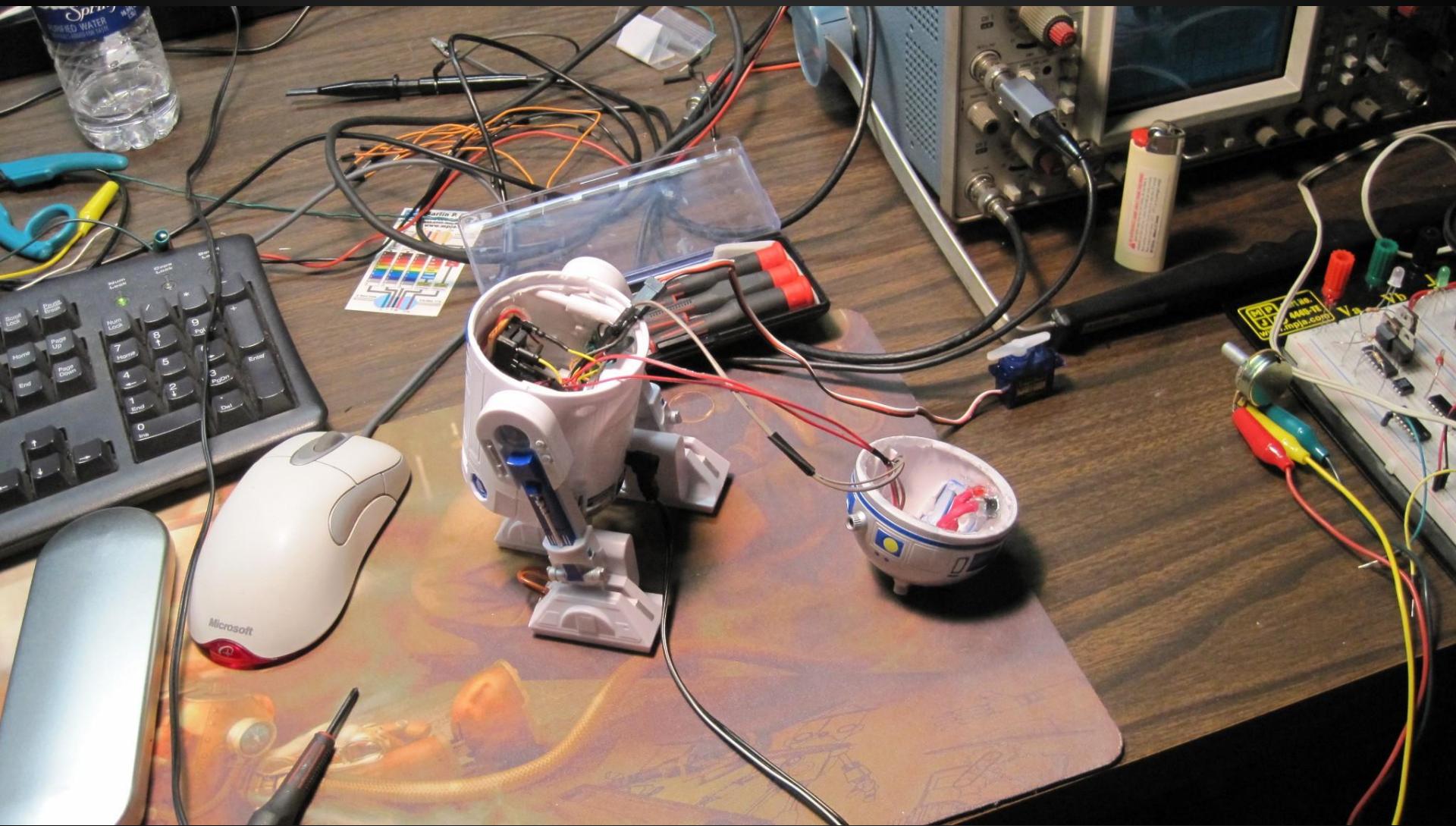
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- .: Make: Groups
- .: Ham Radio Groups









# Is this common?

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How many in: Utah ?

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How many in: Utah (5-6)

.: TheTransistor / Darlington (Provo /  
Midvale)

.: Logan Laser Labs (Logan)

.: Mod Technologies (Ogden?)

.: MakeSLC (SLC)

.: ??? (Park City)

# Is this common?

How many in: USA?

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How many in: USA?

About 200+

(\*According to Hackerspaces.org, and my  
crappy guesswork)

# Is this common?

How many in: World?

# Is this common?

How many in: World?

Over 500

(\*According to Hackerspaces.org, and my  
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/note Not over 9000





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.: Community

<< People that share some common ground with you.

ABSOLUTELY  
NO  
HARD BALL  
SOFT BALL  
FIELDS ONLY











UNION JACK®

01 CRICKET 01

MATLAB®  
& SIMULINK®

STUDENT VERS.

01 CRICKET 01

UNION JACK®

01 CRICKET 01

20

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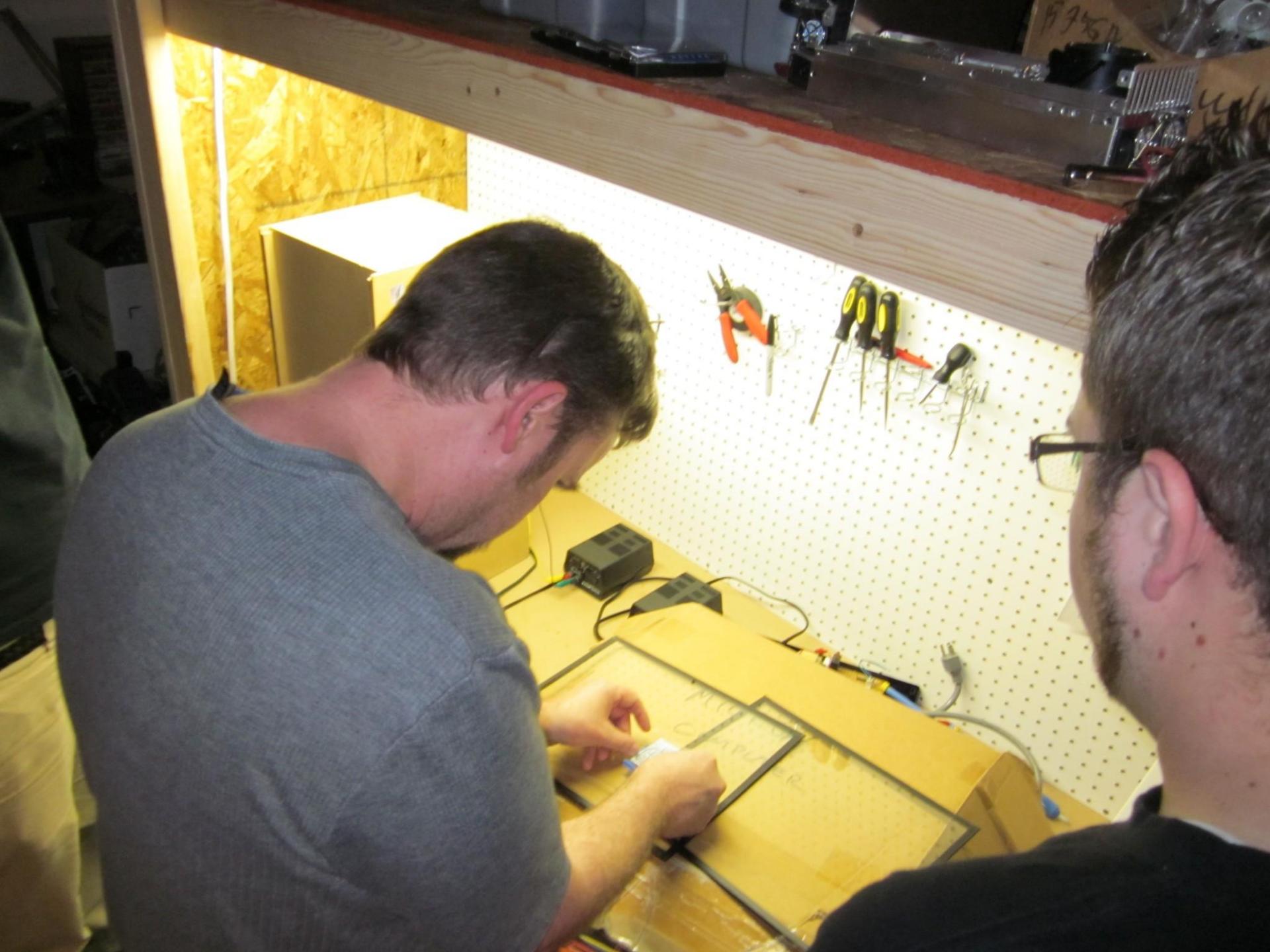
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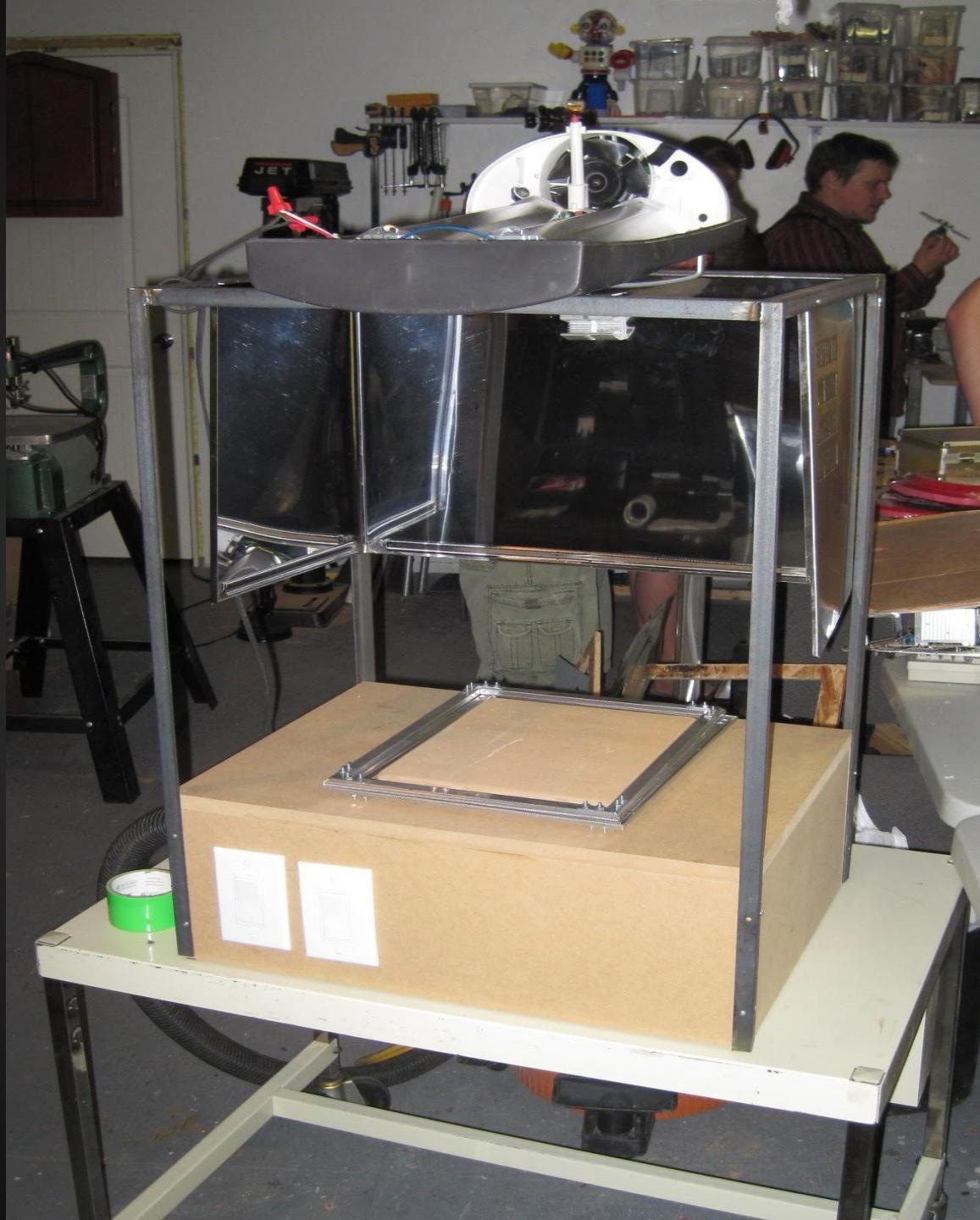
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.: Access to better tools / equipment / etc.

<< Donated tools. Pool resources to get nicer stuff.







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<< Asking AND answering questions.

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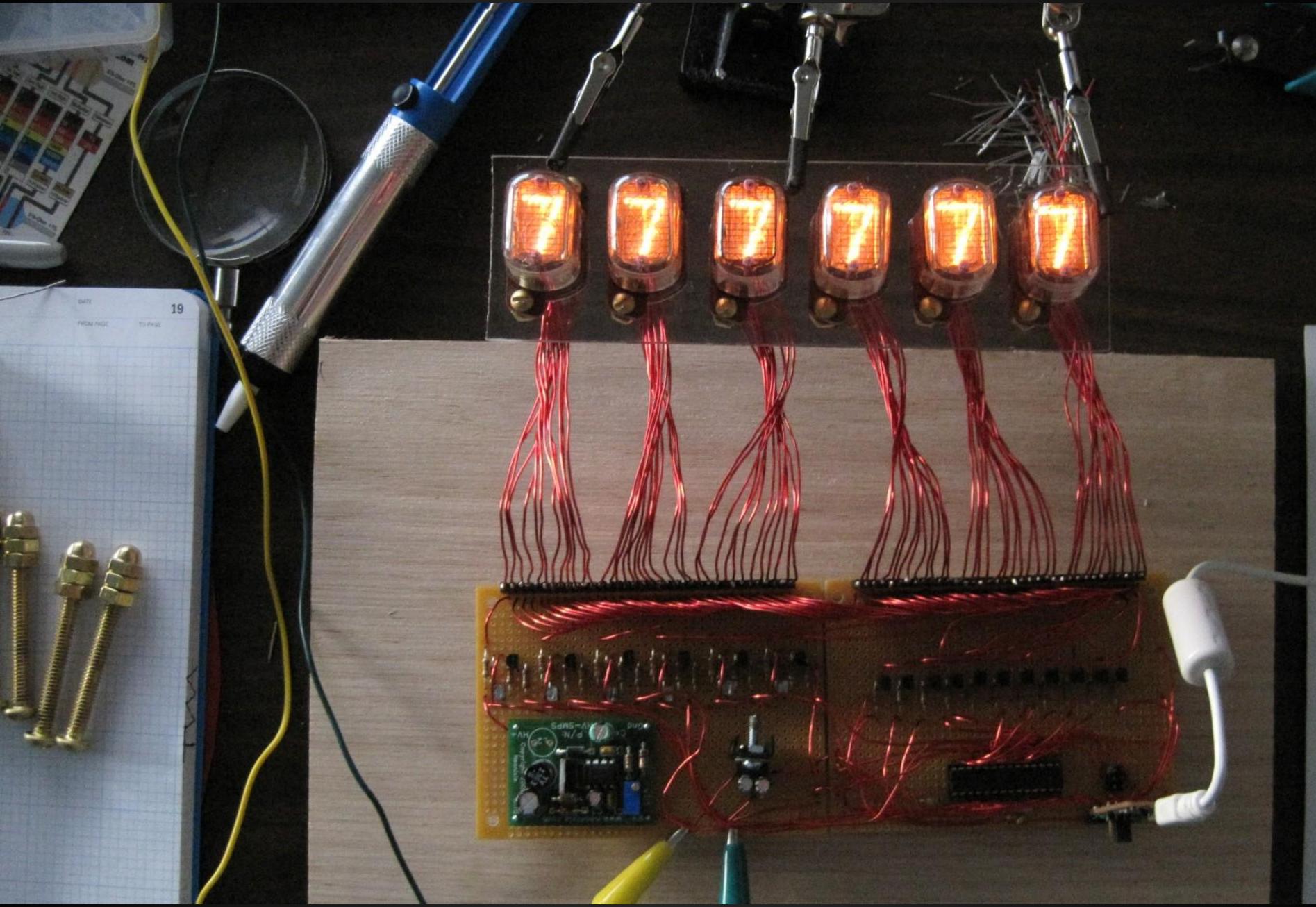
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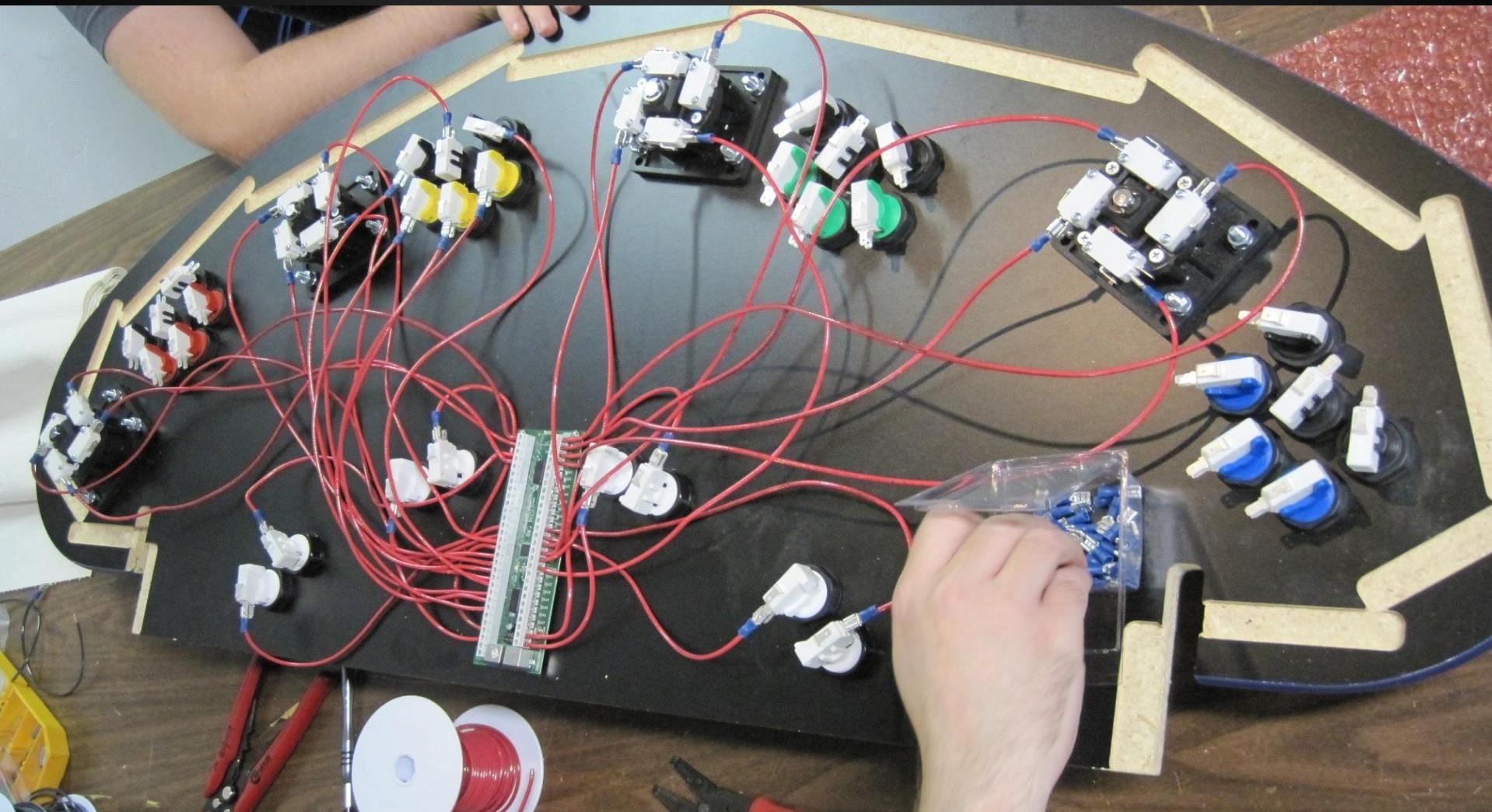
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## .: A place for projects you don't want at home

<< Large projects, dangerous projects, obscene projects...











ABSOLUTELY  
NO  
HARD BALL  
SOFT BALL  
FIELDS ONLY

KEEP THE  
CHANGE

@thetransistor

mame  
multiple arcade machine emulator

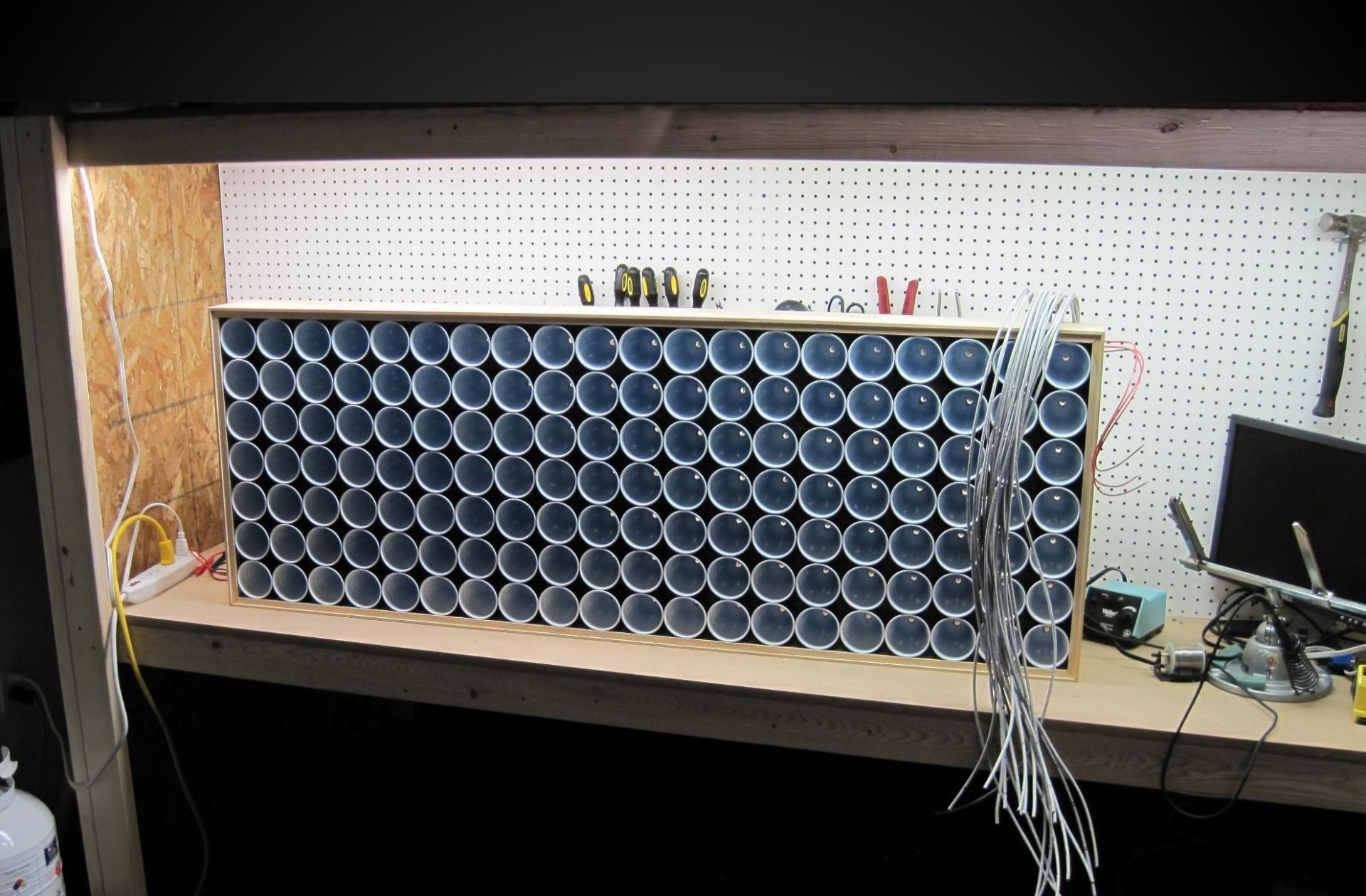














High Voltage



SHINE

YOUR GEEK

integration



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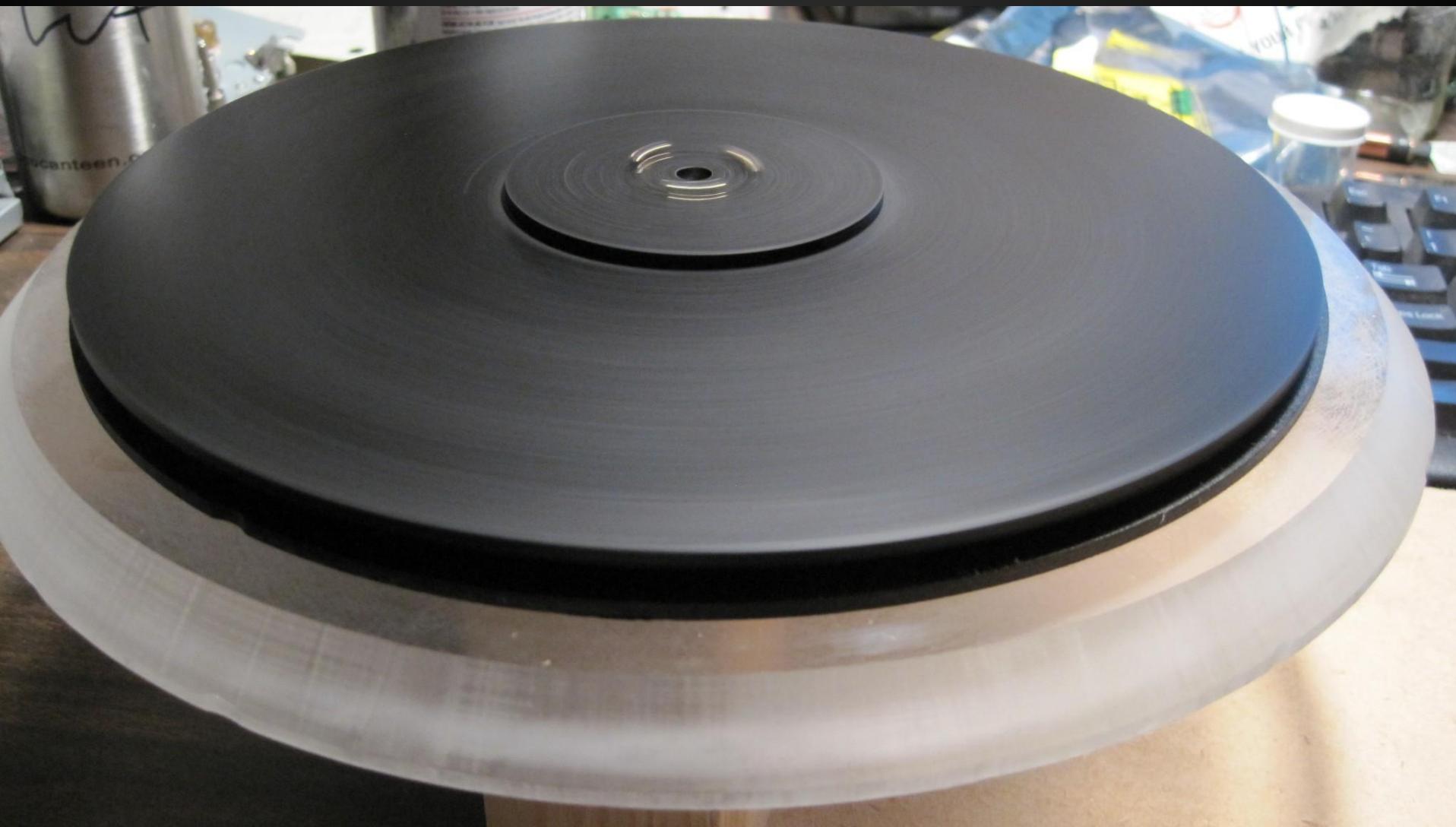
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- .: be funny, at least to most of the people who experience it





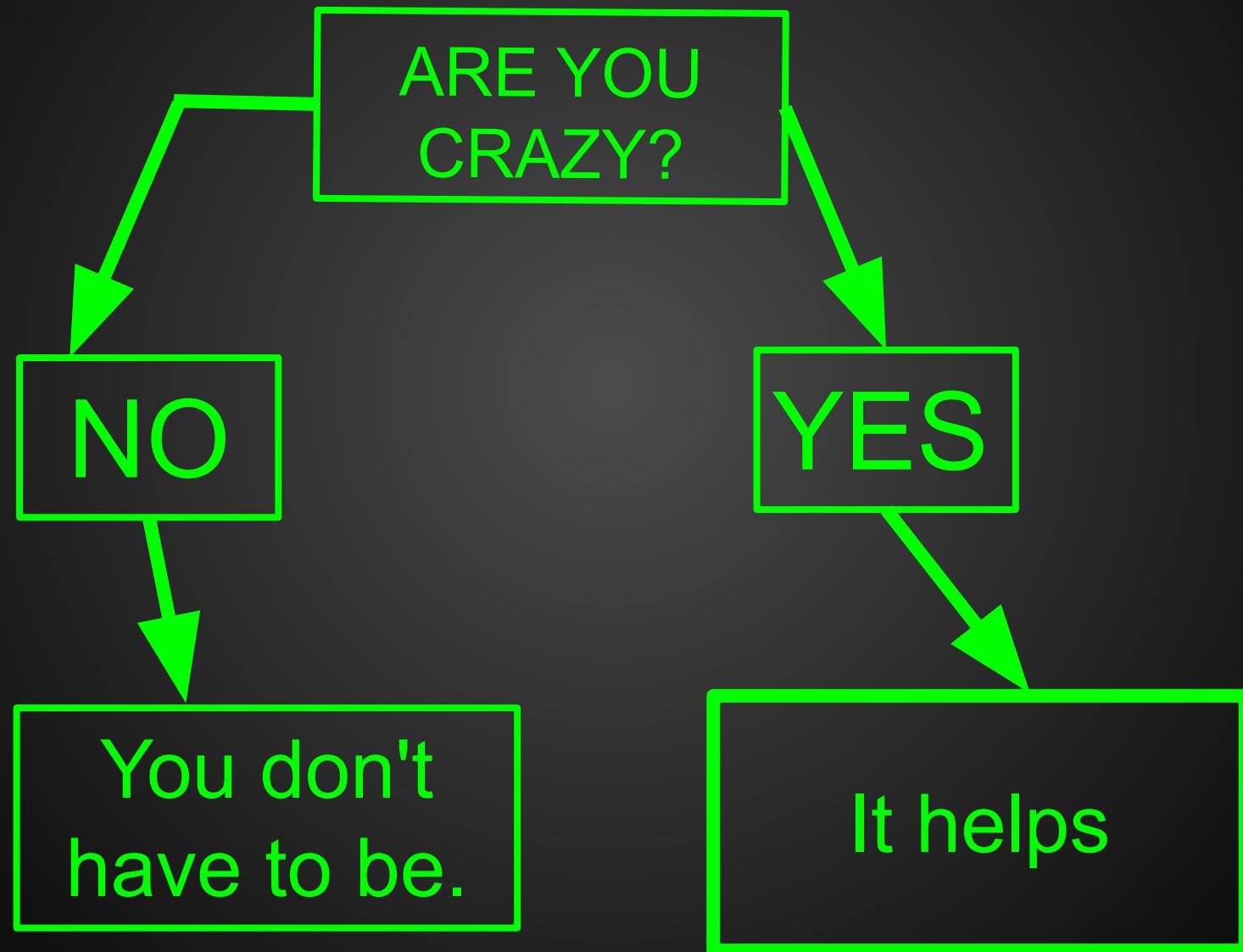


**Sweet. I want to start one!**

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**ARE YOU  
CRAZY?**

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integration

CREDIT CARD  
with manager



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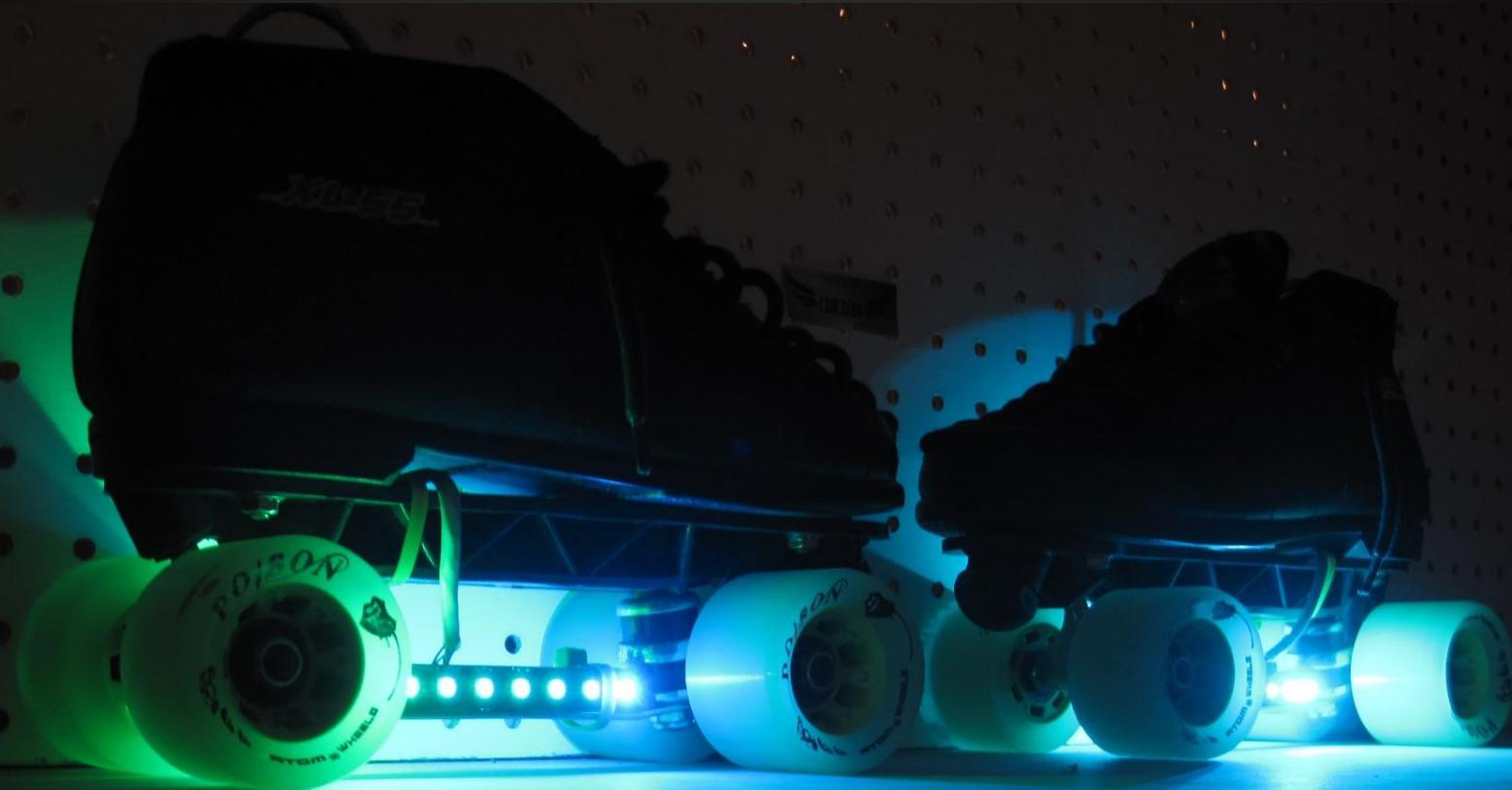
## **Step 4- Build and improve your space**

(Start small and improve. A hackerspace should be fun.)



I SEE YOU'RE PLAYING **STUPID** AGAIN . . .  
LOOKS LIKE YOU'RE WINNING TOO.





# Stay in contact:

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**IRC: Freenode is free**

**Yahoo Groups, Google Groups, etc**

**.: Hard (relative)**

**Setup your own website, Mailing lists, etc**

# Define things you may want!

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## ∴ Future growth

<< What kinds of things do you want in the future.



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## **.: Organization**

(contact methods, meetings, physical organization)

## **.: Legal Info**

(Contact a lawyer. The brave could contact the internet)

(You will likely want waivers, basic legal entity, etc)

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  - << 401(c)(3) - A federal non-profit. Donations can be written off on donators taxes.**
  - << Helps mitigate liability**
  - << Protects the entire group**





# Potential Hackerspace Locations

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## .: Temporary Locations

(not 24/7, maybe an unused room for weekly meetings)

<< Work. Extra room?, Conference Room?

<< Schools

<< Apartment / Condo Clubhouse

<< Coffee Shop / Deli / etc

<< Other hackerspaces / clubs / groups

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## .: Permanent Locations

<< Ask EVERYONE

<< Craigslist / KSL

<< Realty Companies

**You found a space! Awesome!**





















LABCANDY

3



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<< but you probably want them anyways

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**.: Expand only when absolutely needed**







WIFI PASSWORD:  
free.internet





**What have our (HackSLC /  
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**(I'm a bad-news first kind of a  
person, so let's do the pitfalls first.)**

# Pitfalls



# Pitfalls

**.: Not sticking to our own rules can cause anarchy.**

**<< Sometimes this is nice.**

**<< Most of the time it's just unwanted drama.**

# Pitfalls

.: Not listening to members

<< They get upset

<< They leave the group



# Pitfalls

.: Not including everyone

<< Members feel left out, bored

<< They leave the group



# Pitfalls

.: Not sticking to core needs

<< If you focus on fringe wants,  
less will get done.

<< It's harder to complete core  
projects if the space is  
configured for something else.

# Pitfalls

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**EXAMPLE:**

# Pitfalls

## .: Not sticking to core needs

### EXAMPLE:

#### The situation:

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<< The space was rarely used.

<< About 90% of what the members wanted was electronics and software-based.

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#### In response:

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<< We added a ton of personal desk space

<< We upgraded the network / servers

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#### The result:

<< Members had a better time! More projects got done, and more members joined.

# Pitfalls

.: Not sticking to core needs

EXAMPLE:

The Lesson:

<< If you don't stick to your core needs, you're gonna have a bad time.



# Pitfalls

**∴ Trying to please everyone**

**<< Every member needs a voice, but you need to focus on the needs of the group**

**<< Try to keep everyone happy, but realize you are going to have to upset some members.**

# Rewards

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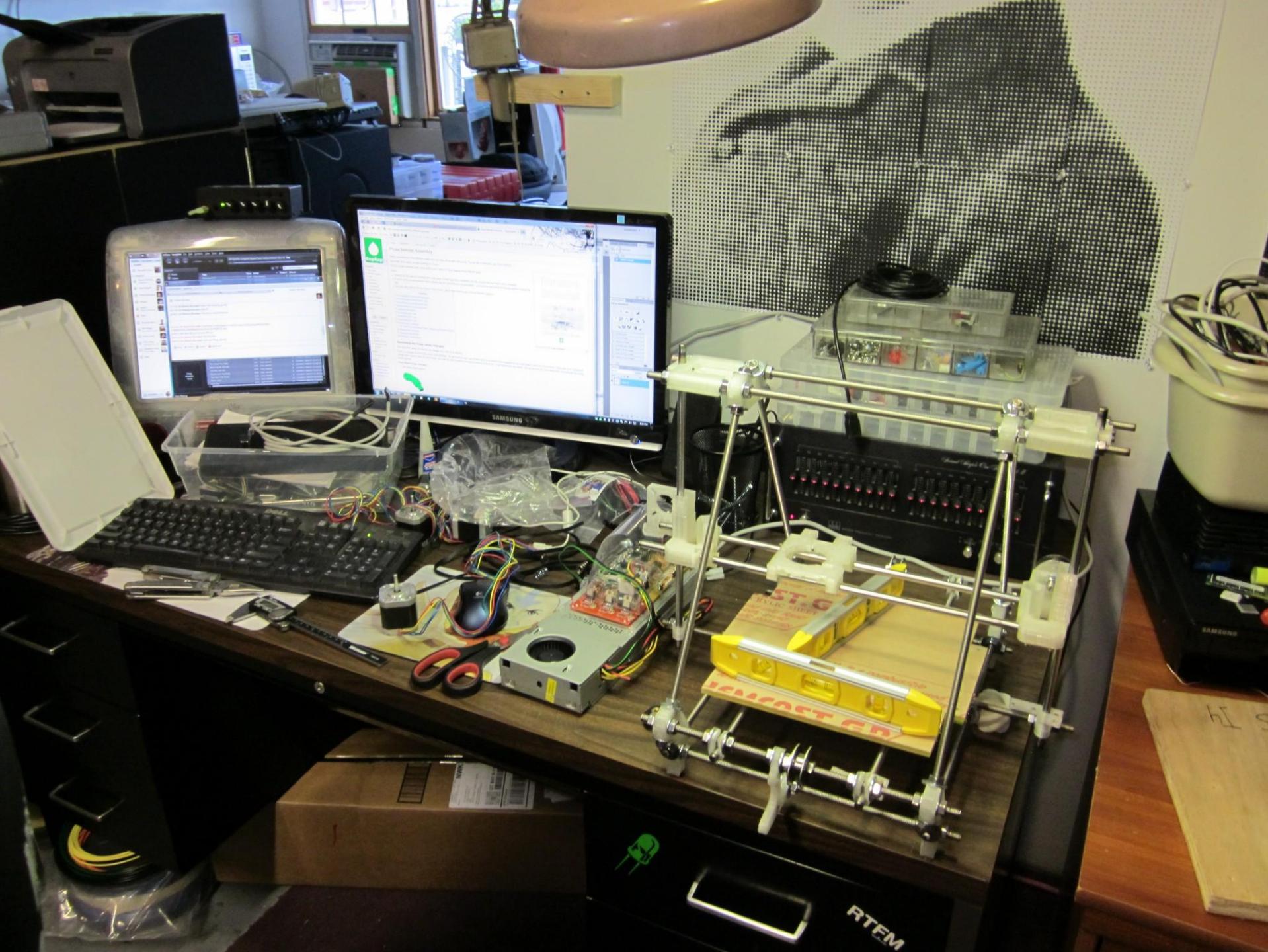
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- .: Software, Hardware is developed and shared**
- .: The entire group contributes to projects**

**shop-vac**  
Wet/Dry  
Quiet Series  
**5 U.S. GAL 18.9 L**  
**2.0 HP P.O.**











THIS PRODUCT  
INSPECTED AND  
PACKAGED BY:  
  
GAT® RDI  
Quality and Innovation  
100 Parley Road, Carol Stream, Illinois 60166

Made in U.S.A.

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# Additional Resources

**:: Hackerspace design patterns**

<< [http://hackerspaces.org/wiki/Design\\_Patterns](http://hackerspaces.org/wiki/Design_Patterns)

**:: Utah One Stop Business Registration**

<< <http://osbr.utah.gov>

**:: Google / The Internet**

<< The internet is your friend. Tons of resources.

**:: Other Hackerspaces**

<< Generally VERY helpful. Contact them.

# QUESTIONS?

