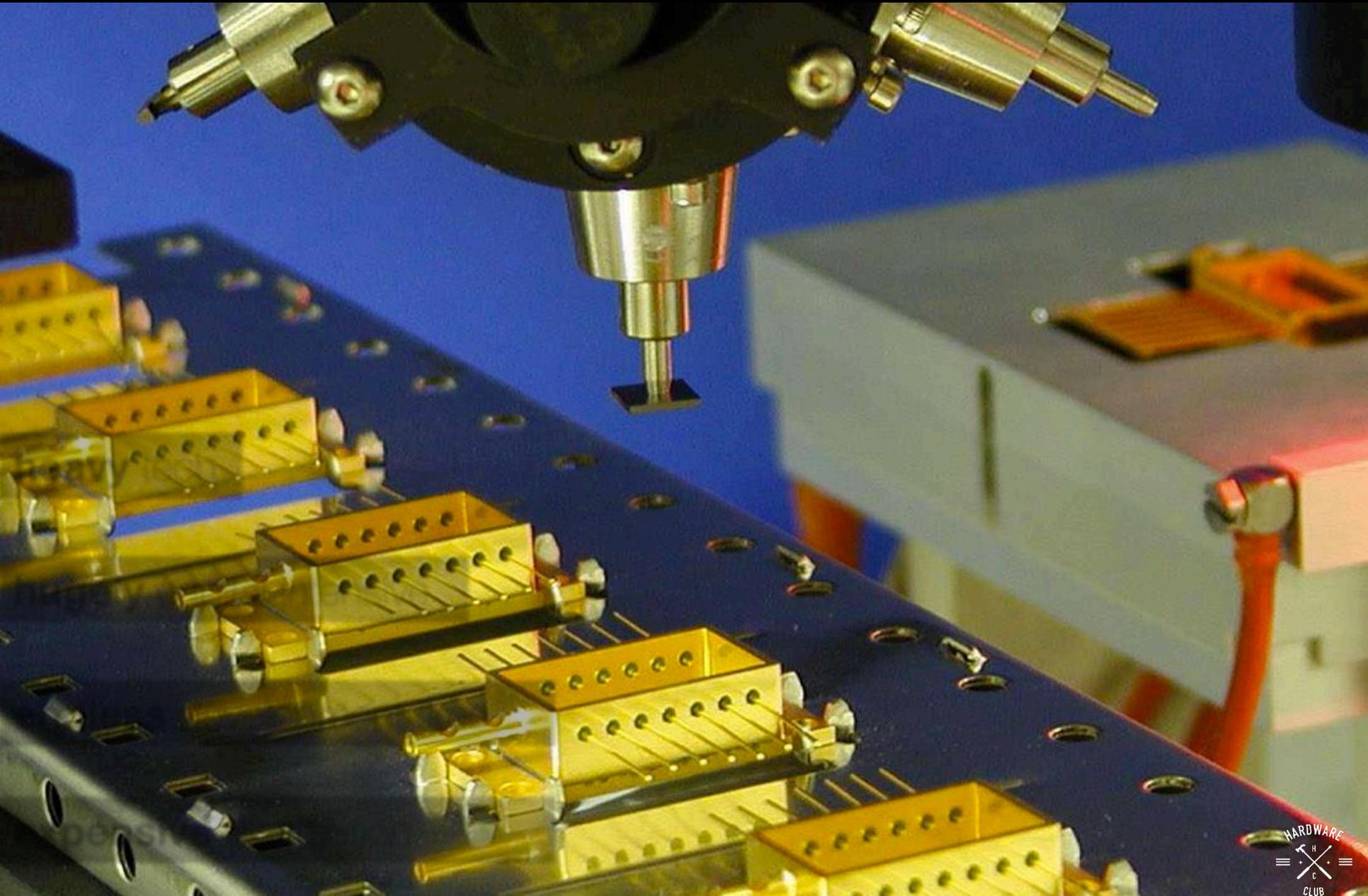


The Business of Making

Strategies for Success from Startup to Exit

what hardware used to be.





VC.

Hardware Startup



 AlphaLab

 alphaLab gear

The Hardware Revolution

The New York Times

THE V
TECHNOLOGY
For
Entrep

VB

SILICON VALLEY
BUSINESS

Apr 25, 2012

Wh **BUSINESS** **IN**

The New York Times

At an Annual Tech Show, It's Hardware's Turn in the Spotlight

By Luke

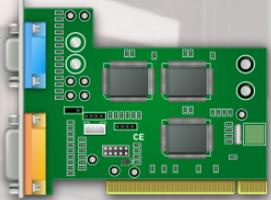
For ye startup mostly build a physic anymo

In Nov startup

By NICK BILTON
Published: August 25, 2012

In recent years, Silicon Valley seems to have forgotten about silicon.

 FACEBOOK



The Hardware Revolution

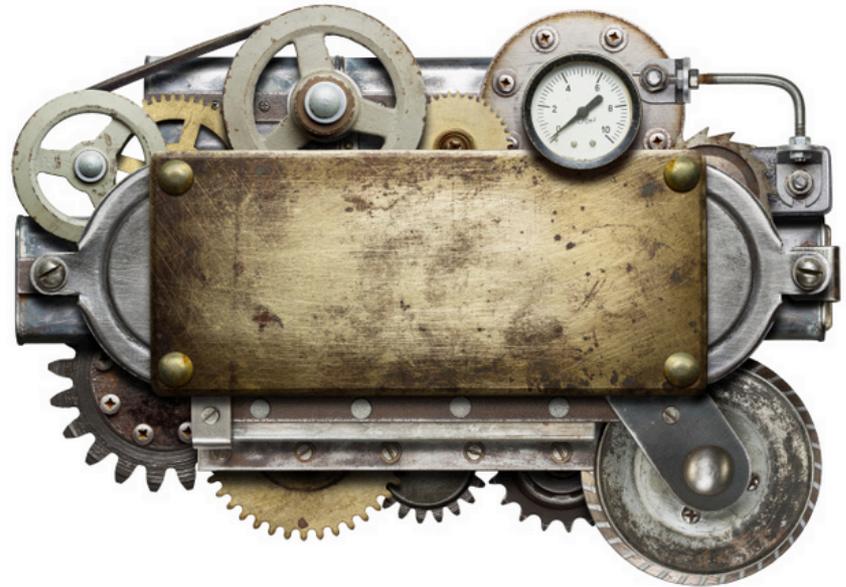
Removing Barriers to Entry

- Open source hardware
 - Arduino boards, etc
- Cheap pre-fab dev kits & sensors
- Access to tools and equipment for prototyping and early production
 - Techshop / makerspaces
- Crowdfunding platforms to prove early customer traction
- Infusion of capital from funding entities

Hardware Is The New Software

Posted Jul 12, 2014 by [Min-Liang Tan \(@minliangtan\)](#)

16 [Share](#) 2.5k [Share](#) 1,116 [Tweet](#) 838



Building a Successful HW Company

1. Customer Validation
2. Product/Market Fit
3. Company & Team Building
4. Investor Buy In

Smart Prototyping

- Fake it until you make it
- One hypothesis at a time
- Ugly & Fast beats Beautiful & Slow

Successful Products Start Simple

- 1st iPhone - iPod with up/down/left/right buttons
- 1st Fitbit - single pedometer, not wireless, no subscription revenue
- 1st DropCam - overpriced IP camera that was easier to use and had better software

Supply Chain Hacks

- Shop outside the box
- Ride high volume product coattails
- Alibaba & Other Online Matchmakers
- Never, ever be the guinea pig

Choosing a Manufacturing Partner

- New Factory or New Product – Not both
- Involve factory early – DFM
- Small production runs to start, increase slowly
- 1st Production Run....be there in person

Design for Manufacture in the U.S.

- Can be Lower Cost!
- Time to Market
- Inventory Carrying Costs
- Quality Control & IP Protection

Kickstarter Tips

- Key to success is before the launch
- Nail down 50%+ of total raise before launch
- Everyone wants to back a winner
- Your competitors are watching

Distribution Amplifies Every Choice

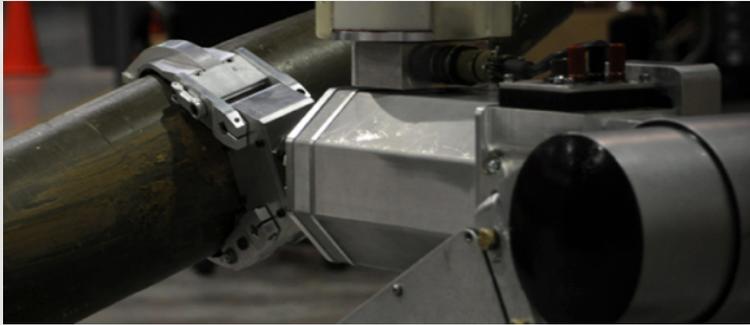
- Price high to start
- Do things that don't scale
- Engineering:Software => Marketing:Hardware

PROFIT



CASH

Regional Manufacturing Assets



- Over 8000 Manufacturers in the region
- Skilled Advanced Manufacturing Work Force
- Infrastructure to support new manufacturers
- Leading research universities and other technology institutions

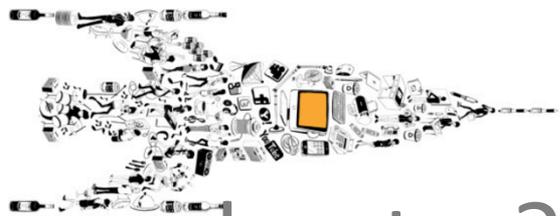
Industry Diversity



#1 City in World for HW

- Regional Support for Manufacturing
- Experience working with early stage products
- Local Skilled Workers

PITTSBURGHERS KNOW HOW TO MAKE STUFF



accelerator?

What is an

Philosophy

- Accelerate market learning through rapid iteration and testing early products with customers

Unique Model

- Focus on customer development intertwined with product design and development
- Mentorship, Education
- Community, Networking
- Funding
- Space

AlphaLab

- Founded Feb 2008 to build and accelerate Pittsburgh's software/Internet ecosystem

Leverage national and local trends

- Decreasing cost to build software products
- Agile development techniques

Charter member of Global Accelerator Network

#6 ranked accelerator nationally

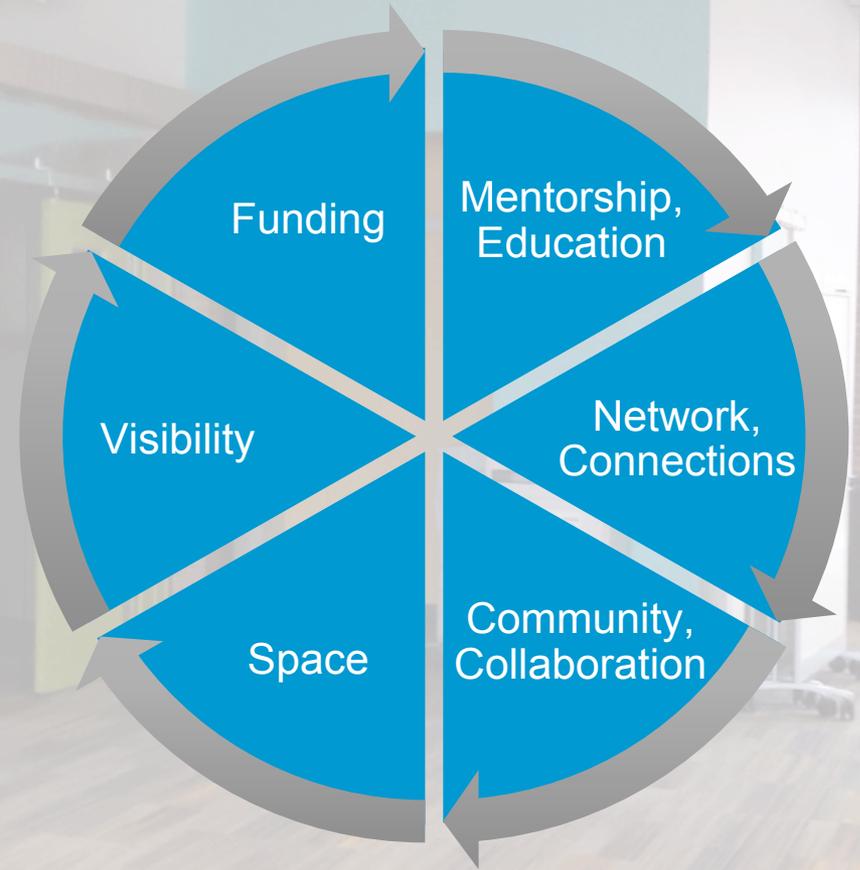
Helping Companies Build Momentum

Accelerator

- Provide key resources to help a startup move faster toward product, customers, funding

Philosophy

- Be open to challenge and test your key assumptions quickly





innovation works

Among Most Active in US

\$70M

Dollars Invested

\$2.0B

Follow-on Funding

300+

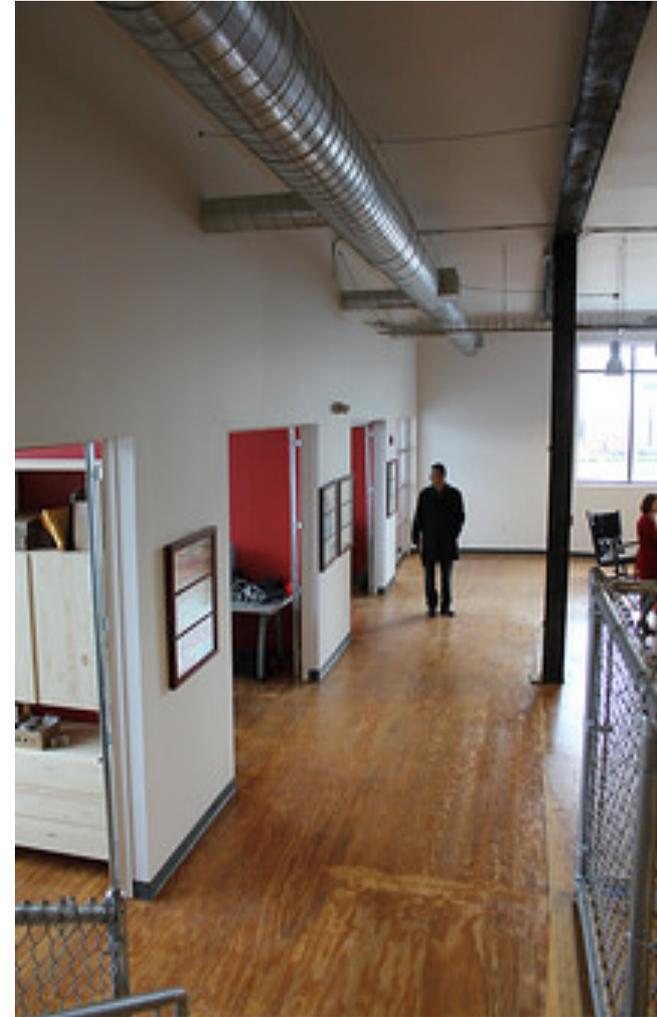
Companies Funded

up to **\$600k**

Invests up to \$600k in
early stage companies

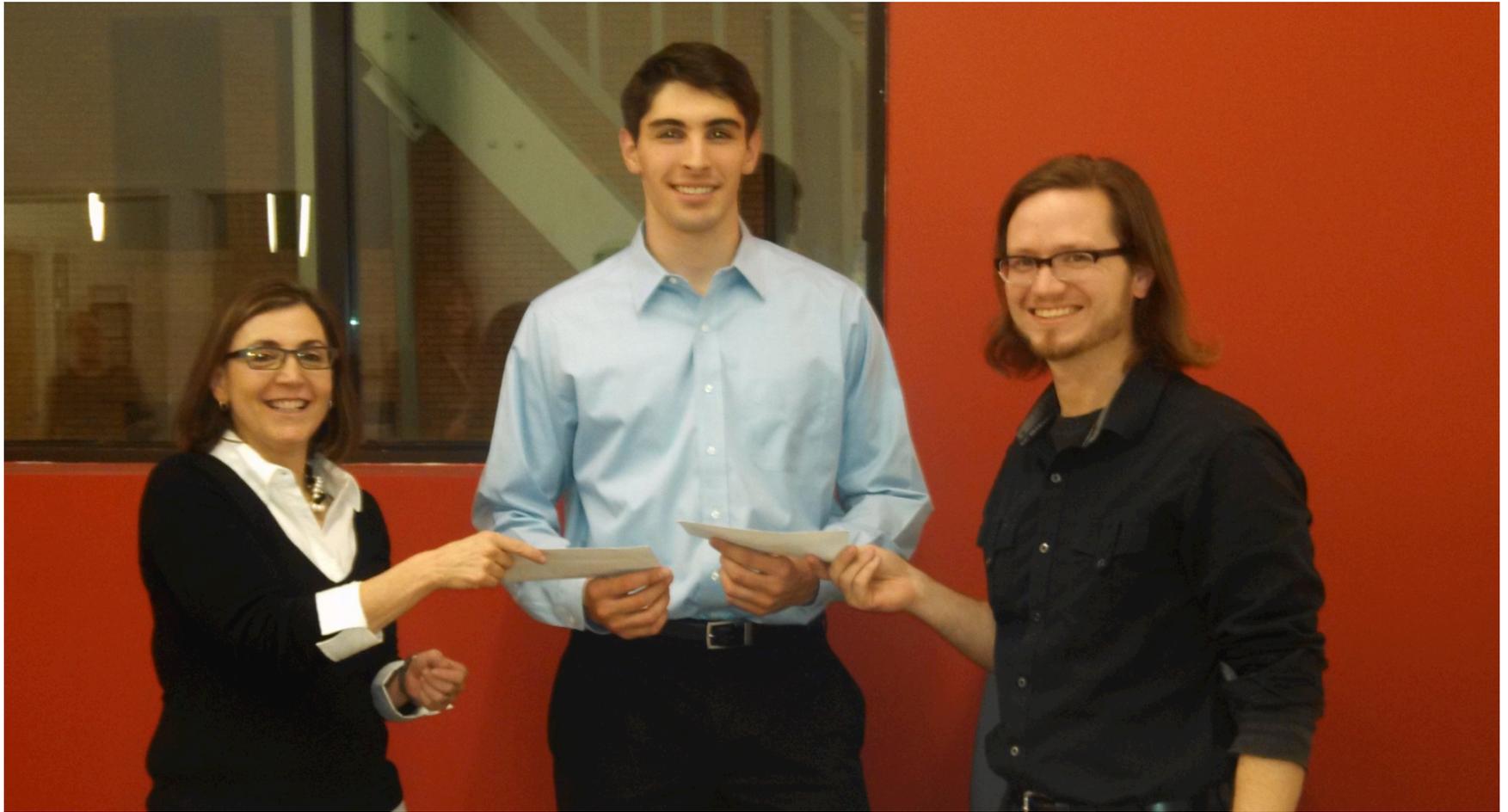


Office Space





Funding





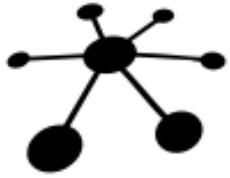
Educational Sessions





Mentors & Advisors





Network, Community & Collaboration





Demo Day



What do accelerators look for?

- Able to have a fundable plan by program end
- Unique, compelling solution with strong market potential
- Capital efficiency - ability to achieve significant milestones in short period of time
- Passion, commitment and capabilities of the team

What do we look for?



Big problem & big market



Off-the-shelf or new tech



21 weeks and \$50k will get you to a point that you can raise funds (investment or revenues)



Enter at the right stage to reach meaningful result by end of program



AlphaLab Gear Market Validation Module

- 21 weeks (April through August)
- Up to \$75,000
 - \$25k-\$50k upon entry
 - Additional \$25,000 convertible note provided that company receives \$25,000 in purchase orders
- Well-positioned to apply for Manufacturing program

The Spring 2018 Market Validation application cycle is open!

AlphaLab Gear application process

- Deadline: Feb 11
- Interviews: Feb 27 & 28
- Offers: late March
- Cohort starts: April 9



alphalabgear.org/apply

AlphaLab Gear Hardware Cup

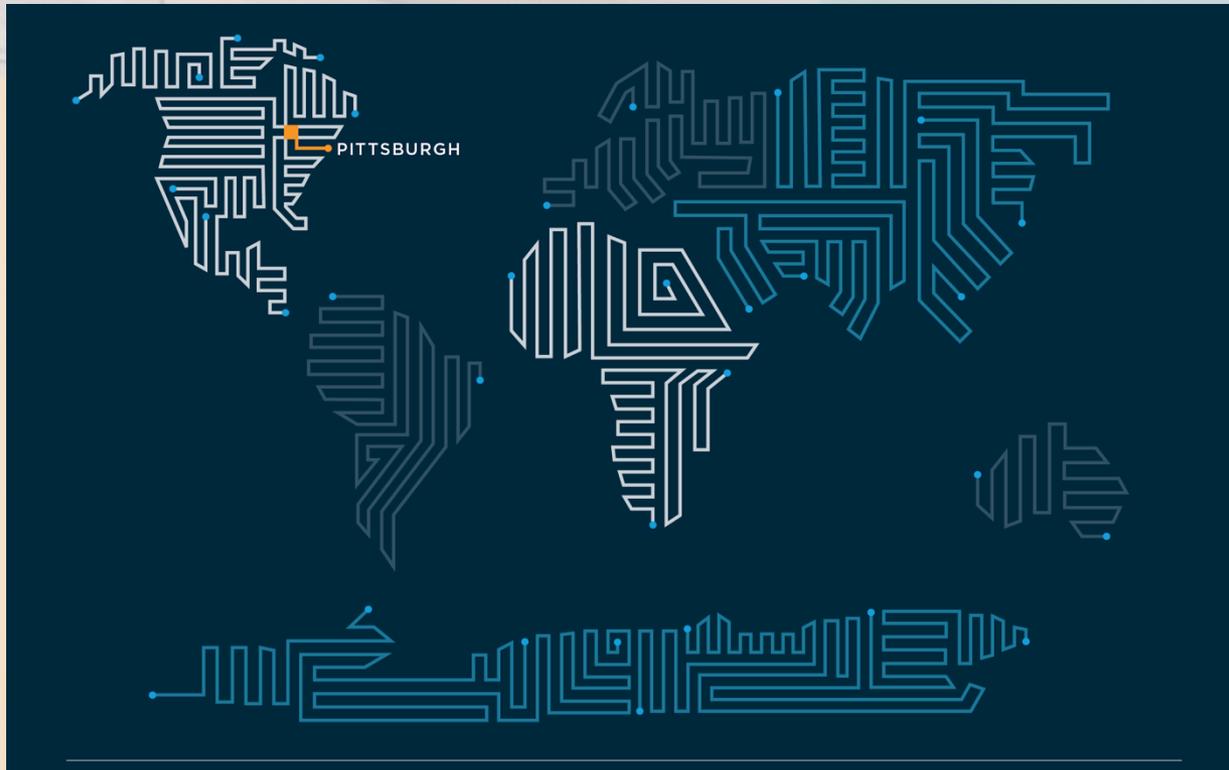
Applications are open! www.hardwarecup.com

2/6 Mid-Atlantic:
Pittsburgh

2/13 Northeast:
Boston

2/21 East Coast:
DC

3/6 South:
Austin



3/13 West Coast:
LA

4/3 Midwest:
Chicago

**Japan,
South
Korea,
Israel** also
holding
Hardware
Cups

4/18 & 4/19: International Finals in Pittsburgh

@AlphaLabGear

#HWCup2018



alphalab gear

38

Companies since
2013

85%+

Currently Operating

63%

Have Paying Customers
by Demo Day

95%+

Follow on Funding w/in
6 months of Demo Day