



# The greatest new product failure in history.



### THIS IS THE EDSEL

Newest Expression of Fine Engineering from Ford Motor Company



## The Ford Edsel.



### Ford Motor Company

- offering) on the New York Stock Exchange in 1956.
- billion in today's dollars).
- It was the most successful IPO in American history.

This is not an offering of these Shares for sale, or an offer to buy, or a solicitation of an offer to buy, any of such Shares. The offering is made only by the Prospectus.

10,200,000 Shares

ford MotorComhann P

Common Stock

Price 864.50 per share

## After revolutionizing mass production, Ford had their IPO (initial stock

### • The stock opened the day at \$64.50/share and by the end of the day was trading at \$70.50, giving them a market capitalization of \$660M (over \$6



### Ford Motor Company

- IPO and use it to develop a new product.
- them a huge budget and told them to develop the most advanced automobile ever.

# So they decided to take the cash from their highly-successful

• They hired the best automotive engineers in the world, gave

### THIS IS THE EDSEL

Newest Expression of Fine Engineering from Ford Motor Company



Projected sales for the first year were 200,000 units, with over one million units within three years.



"The Newest Expression of Fine Engineering from Ford Motor Company".

The most advanced automobile ever.

# They were so confident of success the Ford Edsel was released in several different lines and models.



### THIS IS THE EDSEL

Newest Expression of Fine Engineering from Ford Motor Company



## The greatest new product failure in history.

- **Projected sales for the first year were 200,000** units, with 3-year projections of over one million units.
- First year sales were less than 60,000.
- The second year was 56,000.
- Total units sold were less than half the company's projected break-even point.
- Each one sold cost 2x to make.
- The Edsel project lost a colossal \$350 million (over \$3 billion in current dollars).





### Technologically Feasible.

### What customers want.

### Profitable economics.



### What customers want. Techno gically Feas ble.



### Profitable economics.

### The Edsel had <u>one</u> of these things.

It was technologically feasible, but the economics weren't profitable and it didn't align with what customers wanted

### Technologically Feasible.

### What customers want.

### ofitable economics.



# This has been a recurring issue since the dawn of entrepreneurship:

# How does one reliably create products that succeed?

We've all seen examples of companies that have sent millions of dollars developing products they thought they world needed, only to find out that no one wanted to buy those products.

### I'm embarrassed to admit that I've done it myself.

### In 2000-2001 | used a linear product development process:

Congratulations! You've spent 2 years and \$5 million proving that there is zero demand for your product!

> Spend millions building it.

### Cool idea!

### But most startups die in the valley of death.

Then we'll scale up and be rich!

Find some customers.





### Three concepts I wish I'd known before I did that:

# Product Market Fit Customer Development Design Thinking

### STANFORD UNIVERSITY

### EE204: Business Management for Electrical Engineers and Computer Scientists

Main Page » Product/Market Fit

On this page: Product/Market Fit

### **Product/Market Fit** ( The only thing that matters is getting to product/market fit.

by Marc Andreesen, June 25, 2007

This post is all about the only thing that matters for a new startup.

But first, some theory:

If you look at a broad cross-section of startups -- say, 30 or 40 or more; enough to screen out the pure flukes and look for patterns -- two obvious facts will jump out at you.





Main Page » Product/Market Fit

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If the only thing that matters is product/ market fit, then the only thing we should care about is how do we get there most efficiently and effectively?

## Steve Blank

Founded 8 companies, four had IPO's The other four resulted in "large craters in the ground". **Retired and wrote "The Four Steps to Epiphany".** 

# "No business plan survives first contact with customers".

-Steve Blank

# "Don't do product development before you have first done <u>customer</u> <u>development</u>".

-Steve Blank

### The Lean Startup, a book by Eric Ries

THE NEW YORK TTMES BESTSELLER THE LEAN STAR

> How Today's Entrepreneurs Use **Continuous Innovation to Create Radically Successful Businesses**

getting to a successful product more quickly.

- Minimum viable product Learn from Customers **Continuous deployment Rapid iterations**
- Learn, measure, adjust. Repeat.

Note: the "lean" does not mean "cheap", per se, it means reducing cycle times and

### From the author's introduction to the book:

### THE ROOTS OF THE LEAN STARTUP

The Lean Startup takes its name from the lean manufacturing revolution that Taiichi Ohno and Shigeo Shingo are credited with developing at Toyota. Lean thinking is radically altering the way supply chains and production systems are run. Among its tenets are drawing on the knowledge and creativity of individual workers, the shrinking of batch sizes, just-in-time production and inventory control, and an acceleration of cycle times. It taught the world the difference between value-creating activities and waste and showed how to build quality into products from the inside out.

The Lean Startup adapts these ideas to the context of entrepreneurship, proposing that entrepreneurs judge their progress differently from the way other kinds of ventures do. Progress in manufacturing is measured by the production of high-quality physical goods. As we'll see in Chapter 3, the Lean Startup uses a different unit of progress, called validated learning. With

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### The book by Eric Ries popularized the term "MVP".



How Today's Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses

ERICRIES

### Minimum Viable Product

"A Minimum Viable Product is that the least effort."

- Eric Ries, in The Lean Startup

# version of a new product which allows a team to collect the maximum amount of validated learning about customers with





(If you explore just one thing, make it our personal notification service. We think it's very cool!)

### SPOTLIGHT! -- AUGUST 16TH

These are the books we love, offered at Amazon.com low prices. The spotlight moves EVERY day so please come often.

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Like to know when that book you want comes out in paperback or when your favorite author releases a new title? Eyes, our tireless, automated search agent, will send you mail. Meanwhile, our human editors are busy previewing galleys and reading advance reviews. They can let you know when especially wonderful works are published in particular genres or subject areas. Come in, meet Eyes, and have it all explained.

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	about a



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directory that connects people through social networks at colleges.

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to:

our school

our classes

riends

our social network

to register. If you have already registered, you can log in.



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Host

Make money by sharing your space and local knowledge. List a room.

Travel

San Francisco Check in June

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### **New Listings**



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Use twttr to stay in touch with your friends all the time. If you have a cell and can txt, you'll never be bored again... E V E R !

What your friends and	txt
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Lingting	Send
follow along with what your friends are doing throughout the day	send updates from your or from the web about whats in yr head
Florian X (64)	
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### Sign in. Mobile number (or email) Password (or PIN) Remember me Sign in New? Sign up! twttr works best when updated from your mobile phone. To verify you are you, we'll need your number. Mobile number Get started



### UberCab Beta is currently live in San Francisco.



"A Minimum Viable Product is that the least effort."

- Eric Ries, in The Lean Startup

# version of a new product which allows a team to collect the maximum amount of validated learning about customers with
# Mediocre entrepreneurs build an MVP to <u>show</u> something. Great entrepreneurs build an MVP to <u>learn</u> something.

-Me

## Difficult.







## All are on the recommended reading list for BUS-217.

## Easiest.

REPRINT RIDOSC

## Harvard Business Review

SPOTLIGHT ON ENTREPRENEURSHIP Why the Lean Start-Up Changes Everything

by Steve Blank



# Design Thinking

Developed at the d.school at Stanford

## **Design Thinking:**

An engineering framework for creating products that succeed.



Remember: A prototype is just a rough draft!

feedback. What worked? What didn't?

# Here's the big takeaway:

You will be wrong.

Great entrepreneurs know to always be testing and validating your assumptions.

As a startup founder, you have an awesome idea and a bunch of assumptions you are absolutely sure of.

"It ain't what you don't know that gets you into trouble. It's what you know for sure that just ain't so".

Humans have a tendency to believe that what we think is fact, when it's just opinion. When we act based on a belief and it turns out to not only be opinion but wrong, this is when things can often go spectacularly wrong.

# - Mark Twain



A startup is an experiment. Use the scientific method.

Customer Development, Lean startup, MVP, Design Thinking, Design Sprints are all variations on the same theme: small experiments are what lead to Product-Market Fit.

Great entrepreneurs are always thinking to themselves, "What is the smallest possible experiment that I could do right now that would give me the greatest possible learning?"

### # social



Tip: Try 🗮



Esra Hadi 10:19 PM

Favorite dish from childhood - there are two:

Dolma is one of my favorite middle eastern dishes (I'm originally from Iraq) and it's a combination of vine leaves and other vegetables like egg plant and onion stuffed with rice, meat and herbs.

My second is fish and chips from the UK as I grew up in London and it brings back great memories of eating fish and chips wrapped in newspaper:)!

2 files 🔻



2 replies Last reply 7 days ago



Kunal Umrigar 11:06 PM

Ok, I am going to do an Intro and Favorite food combo here 2

I am Kunal Umrigar, an engineering leader currently working at ThousandEyes Cisco. I moved to Bay Area in 2013 from India. I am passionate about building large-scale data platforms to solve impactful problems for customers. My startup journey began when I joined PubMatic, a programmatic advertising tech company, where I spent 11 years taking on several engineering roles. Early 2020, I joined ThousandEyes, a networking observability startup, which was acquired by Cisco. I am here to learn how to start my own adventure from Bret and all of you! When I am not working, I am mostly helping my kids with their activities or looking for corals to add to my reef tank.. that is if I can convince my wife on the budget... I try to find at least a couple of hours a



### F to search this channel ×

On the class website you will find recaps of each class session, additional reading, assignments, videos, etc.





## BUS-217: Spring 2025

Getting from a startup idea to a launch-ready venture.

- Other Reading
- Resources
- LinkedIn Group
- <u>Slack Workspace</u>

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- Week 1: Listen to the Waves.
- Week 2: Build something people want.
- Week 3: Draw the landscape.
- Week 4: Design an engine of growth.
- Week 5: Engineer an economic model.
- Week 6: Develop a capital strategy.
- Week 7: Frame a funnel.
- Week 8: Become a master storyteller.





Stanford Continuing Studies BUS-217

## BUS-217 Benefits And Other Free Tools And Tools For Your Startup.

Here are some benefits that BUS-217 students receive, as well as a list of free (and nearly free) resources every startup founder should be aware of.

### **AWS** Activate

BUS-217 students receive a variety of free benefits from AWS, including <u>AWS</u> <u>Cloud credits</u>, <u>AWS Business Support</u> credits, exclusive members-only offers, and access to the <u>Activate Console</u> to help build and grow their businesses.

- \$5,000 in AWS Activate Credits valid for 2 years
- 1 year of AWS Business Support (up to \$1,500).

Our Activate Provider Organization ID (Org ID) is: **0rU79**. You should enter this Org ID into the <u>Activate Portfolio application form</u> when applying for AWS Activate. **Note: this Org ID is a case sensitive, unique identifier that should not be shared publicly.** You can <u>see full instructions here</u>.

### Hubspot

\$7.

HubSpot is an all-in-one software platform for CRM, Sales, and Marketing. Sign up at <u>https://www.hubspot.com/startups</u> and select "4thly" as the partner. You'll receive up to 90% off as part of the partnership. Home

years 500).

# Our Slack Workspace



Hi everyone! My name is Allie. I look forward to meeting everyone. I am figuring out if there is a market, and how to reach it, for my

business idea, Dog's Best Friend. I'd like to create hyper-local networks for pre-vetted people to borrow dogs from dog parents for a walk, an afternoon, or weekend. Borrowers get all of the benefits of dog ownership, without the responsibility or expense. People may not be able to have a dog in their apartment, their busy lives preclude caring for one, singles can meet new people easily when walking a puppy, or kids want to borrow a dog for a holiday break. DBF is an affordable subscription model in a market that is dominated by (expensive) payper-service gig worker models. The business is really fun and has big potential! For fun I love to sail for fun, race sailboats, hike locally, read. I now spend quite a bit of time volunteering at the SF SPCA to walk dogs, photograph puppies, and help wherever I can so the dogs are relaxed and ready for adoption.



Abdi Hariri 7:07 AM

Hi everyone, I am Abdi and I have spent 35 years in Tech, mostly in Semiconductors which means I am basically a silicon based dinosaur 🆕 but a very happy one. I was lucky enough to have done every job in a public company but the biggest thrill was to be part of the biggest turn around in the semiconductor industry. What I enjoy most? Building new businesses and helping people succeed- nothing beats that. I am here to learn from everyone as I try to navigate the next chapter.



In my spare time, I like to hike, connect with people from varied backgrounds and cultures, and try new restaurants and foods. I'm looking Monday, April 7th ~ forward to meeting you all in person on Wednesday!! (edit.

Yesterday

Today ~

# Make it easy for your classmates to get to know you by using the same name across everything in class.

Name:

## Name Tag:

Slack:

Zoom:



# Be like Alesya!

## Alesya Pyrkova





Alesya &











Varun O



## **Every week I'll be at the CoHo an hour before class.**

## Join if you want for food, beverages, discussion.

Purely optional.



# I have designed this course to be satisfying for both sippers and gulpers.



## On May 10 I'm doing a special workshop on Storytelling for Entrepreneurs.



Pitching and presentation skills are crucial for success today. Join our one-day intensive workshop in Silicon Valley. Saturday, May 10, 2025



Pitching and presenting are key skills for success, and nowhere is that more true than in the world of entrepreneurship and innovation. Startup founders have to be able to tell that crisp, clear, and compelling story in order to raise money, recruit a team, create loyal

## Enter "bus217" when you register and you will get 40% off!



Workshop Leaders: The workshop is led by Bret Waters, Bruno Mano, and Jeff Cabili. Bret is a veteran Silicon Valley entrepreneur and investor who teaches at Stanford. Bruno is a global expert on the science of storytelling, and Jeff is a world-renown master of pitches, storytelling, and nonverbal communication who also teaches at Stanford.





# **Optional Weekly Group Calls:**



### Bret 5:27 PM

Happy Monday, all! We now have three optional weekly calls you can join:

- Tuesdays at 7pm, hosted by @James Chadwick Griffin. Join the #tuesday-evening-group-call channel for calendar invite and Zoom link.
- Thursdays at Noon, hosted by @Sarah Rosen. Join the #thursdays-at-noon-group-call channel for calendar invite and Zoom link.
- Saturdays at 10am, hosted by @Cat Divers (or co-host). Join the #saturday-am-group-call for calendar invite and Zoom link.

These are purely optional, for those who want to have discussions in between like. Again, purely optional! (edited)



These are purely optional, for those who want to have discussions in between our regular Wednesday night class sessions. Pick one that works for your schedule, if you would



Pinned by you



Bret 7:22 AM Americans spend over \$300B/year on unhealthy fast food, and it's become a leading cause of premature death. Most people want to eat healthy, but with a busy life it's hard sometimes.





### Jonathan Lam 4:36 PM

Healthcare professionals spend 20% more time per visit with patients where English is not their first language. Staff want to see more patients per day, but existing translation tools are expensive, time-consuming, and unreliable.

& @Phoebe Kao (edited)





### Irakli Sarava 11:51 AM

Over 64 million gig workers and freelancers in the U.S. rely on inconsistent income, yet struggle to access affordable & easily accessible financial services products — like loans, insurance, savings and micro-investments opportunities for retirement — leaving them financially vulnerable in an increasingly unstable economy.









Luggage creates a \$25B+ annual burden for travelers and infrastructure, adding cost, delays, and stress to every journey. Travelers crave





Ranjana Soni 7:17 PM

#problem-statement Businesses expanding globally struggle to keep up with varying regulations and compliance requirements across countries, leading to legal risks, inefficiencies, and increased costs.



Sarah Rosen Today at 2:12 PM
From carbon capture, vertical farming and robot driven garbage collection environment: Yet interested environmentally conscious investors must rea technologies.
Bret 31 minutes ago Perfect - now make it shorter!
Sarah Rosen 1 minute ago New environmental products and greentech inventions emerge daily. Yet p them.

and compaction, there are so many new products and inventions emerging to help protect the additional through scores of crowdfunding websites the world over to find these new products and

New

potential investors must dig through through scores and scores of crowdfunding sites to find

### Eating junk food is killing people more than smoking, finds a study

TNN | Last updated on -May 6, 2019, 17:30 IST



01 /10 Are you living a healthy life?



When it comes to following a healthy diet, smoking is considered to be one of the biggest evils risking our health. From the risk of developing cancer, cardiac complications, breathing difficulties and the danger of catching second-hand smoke, there is a very valid reason to say no to smoking.



Comments (6)



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## Eating junk food is killing people more than smoking, finds a study

TNN | Last updated on -May 6, 2019, 17:30 IST



01 /10 Are you living a healthy life?









# Fast food kills - and yet we buy a lot of it.

"A fast food diet increase your chances of developing depression, cancer, type 2 diabetes, heart disease and other chronic conditions." -Cleveland Clinic.

"Over the past 50 years, the health of Americans has gotten worse, Today, eating processed foods and fast foods may kill more people prematurely than cigarette smoking". National Institutes for Health

"The health benefits of a natural, plant-based diet have been established by numerous research studies"

- Stanford School of Medicine



# **Problem Statement for Bret's awesome new startup:**

**Americans spend over \$300B/year on unhealthy** fast food, and it's become a leading cause of premature death. Most people want to eat healthy, but with a busy life it's hard sometimes.



# My proposed solution:



# **Tacos! Because everybody** oves tacos

It's easy to make tacos healthy - you can do vegetarian, gluten-free, organic, etc!

**Problem Statement for Bret's awesome new startup:** Americans spend over \$300B/year on unhealthy fast food, and it's become a leading cause of premature death. Most people want to eat healthy, but with a busy life it's hard sometimes.

## **Solution Statement:**

Fast food doesn't need to be unhealthy! Our startup is developing a new brand of health-conscious fast food (healthy tacos!), delivered directly to your home or office.

**Problem Statement for Bret's awesome new startup:** Americans spend over \$300B/year on unhealthy fast food, and it's become a leading cause of premature death. Most people <u>want</u> to eat healthy, but with a busy life it's hard sometimes.

## Solution Statement: Fast food doesn't need to be unhealthy! Our startup is developing a new brand of health-conscious fast food (healthy tacos!), delivered directly to your home or office.

# What do you think our path to product-market fit should be?

### ChatGPT ∨ ⊕ 0

۲

You're not selling software, you're solving a pain. Be crystal clear on:

- Who your target customer is (industry, role, size, etc.)
- ٠

Tip: Talk to 20–50 people in your target audience before writing a single line of code.

### 2. Build a Minimum Viable Product (MVP)

Create a simple version of your solution that addresses the core pain.

- Avoid feature bloat early; you want feedback, not perfection

### 

In B2B, the tighter your focus, the easier it is to find fit.

What pain they have that is painful enough they're actively seeking a solution

Focus on delivering one "aha moment" — the one thing that proves value

Husk Power Systems



## Manoj Sinha CEO and Founder Husk Power Systems

Over 1.2 billion in the world do not have access to electricity. These families suffer health issues associated with breathing smoke from household fires and kerosene, and kids who can't read at night fall behind at school.

According to the UN, access to electricity correlates closely to life expectancy, literacy, and per capita GDP.



## Manoj Sinha CEO and Founder Husk Power Systems



Exhibit 5

### **Biomass Powered AC Mini-Grids**






In the next few years Husk Power Systems built 80 mini-grid biomass systems in rural India. Suddenly kids had light at night to read and study by, and families were living healthier lives.

But the economics weren't great.

and steal power.

bill collection agents and many bills just went unpaid.

hours/day. In the mobile phone era people wanted more than that.

was less attractive.

# In India, 30% of electricity produced is lost to theft. People tap into the lines

- Also, most of the villages had a cash economy, so Husk Power had to employ
- The Biomass systems worked well, but could only produce electricity for 6
- Also, as the cost of photovoltaic technology came down, the cost of biomass



## Manoj Sinha **CEO and Founder Husk Power Systems**

complete pivot.

on the ground in the villages.

- They were out of money. The co-founder quit.
- Manoj knew they needed to either shut down or do a
- He told his wife he had to fly to India and spend six months
- He came home and developed a completely new way of solving the original problem of rural mini-grids.

# The new Husk Power System product:



Solar-powered mini-grids with biomass backup, providing electricity 24x7.



A pay-as-you-go system where people control the electricity to their home via a mobile app. If you don't pay, it's turned off.





unlocks for an amount of prepai days, allowing us of all lights and appliances





Manoj Sinha **CEO and Founder** Husk Power Systems

model.

investors.

- Now this was a scalable model with positive unit economics.
- He made the hard decision to shut down 75 of the 80 biomass installations they operated and focus strictly on the new
- New installations in rural villages in India proved it out, and expanded into West Africa which increased the TAM.
- Armed with proof of the economics, scalability, and a large TAM, he went out and pitched traditional venture capital

## Husk Power Secures \$100+ Million in Equity and Debt to Supercharge Growth of Community Solar Minigrids in Rural Sub-Saharan Africa and South Asia

October 24, 2023 7:00 am

- Series D equity investors, who collectively deploy more than \$10 billion annually, include STOA Infra & Energy, US International Development Finance Corporation, and Proparco;
- Two-thirds of the capital will go to Sub-Saharan Africa, marking a major step towards Husk's goal of mobilizing \$500 million to reach 2,500 minigrids on the continent under its Africa Sunshot initiative:
- The new capital will fund 1,400 new minigrids, nearly 300,000 new connections (a third of them MSMEs) and avoid 350,000 tonnes of CO2 from displacement of diesel generation, while adding 2,500 new direct jobs.

FORT COLLINS, 24 Oct 2023 - Husk Power Systems ("Husk") announced today that it has closed \$43 million in Series D funding, the largest-ever equity raise in the minigrid industry. The funding cements Husk's position as the leader in electrifying communities in rural Sub-Saharan Africa and South Asia with an AI-enabled platform of renewable energy services. The equity funding includes new investors STOA Infra & Energy, the US International Development Finance Corporation (DFC) and Proparco, as well as existing investors Shell Ventures, Swedfund and FMO.

In addition, Husk has leveraged the Series D equity to secure an additional \$60 million in debt from several finance institutions, including the European Investment Bank (EIB), and the International Finance Corporation. (IFC).

Since raising \$25 million in equity funding in 2018, Husk has grown its fleet 20-fold to more than 200 solar hybrid minigrids across two continents, impacted 500,000 people, served more than 10,000 micro, small and medium enterprises (MSMEs), avoided 25,000 tonnes of CO2, achieved a CAGR of 60% despite two years of Covid, and maintained exceptional customer loyalty with a retention rate of more than 90%. It also became the first minigrid company to become EBITDA positive in Q4 2022, and has built a team of more than 500 employees.

Over the next 5 years, the new funding will be used to grow Husk's fleet 8-times by adding more than 1,400 new minigrids with a projected 300,000 new connections (one-third of them MSMEs), while avoiding 350,000 tonnes of CO2. Husk will also continue to build a world-class team and add 2,500 more employees, while expanding into new markets in Africa and Asia. The Africa Sunshot initiative, which Husk announced at the Africa Climate Summit in September 2023, will mobilize at least \$500 million for Husk to scale to 2,500 minigrids in 6 countries within 5 years. Two-thirds of the newly announced financing will go toward Sub-Saharan Africa, marking an important first step to achieving the Africa Sunshot goals.

Commented Manoj Sinha, Husk Co-Founder and CEO:"We have successfully created and scaled a rural energy platform that is life-changing for our communities from day one. We're excited to put this new equity and debt to work to supercharge Husk's growth and unlock the full economic and social potential for a generation of rural Africans and Asians, especially women and

> The company aims to enter the Democratic Republic of Congo in the second half of 2025. Credit: Jose Luis Stephens/Shutterstock. · Power Technology · Jose Luis Stephens/Shutterstock.

GlobalData

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## **MANOJ SINHA HUSK POWER SYSTEMS**

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## **Husk Power**

Rural electrification was and still is more of a necessity than an option.

- Gyanesh Pandey, Cofounder of Husk Power Systems<sup>1</sup>

On a hot and humid day in August 2013, Manoj Sinha was walking toward Alma de Cuba on Walnut Street in downtown Philadelphia to meet his wife, Varsha, for dinner. He had just gotten off the phone with Gyanesh Pandey, his cofounder and CEO of Husk Power Systems (HPS, or Husk), who had informed him of his decision to move on, believing that it was time for someone else to push the venture forward. Pandey had been at the helm of the company, managing operations on the ground in Patna, in the state of Bihar in northern India. Sinha had been working at McGraw-Hill Financial in New York City during the day and working for Husk by night, primarily raising money and managing relations with Husk's investors. Sinha knew that this news could have important consequences for the lives that he and his wife had built in the U.S.





# One of the key takeaways:

You marry the problem, not the solution.

original solution failed.

For most great entrepreneurs, the problem to be solved is the North Star.

# Manoj stayed true to the problem to be solved, but was willing to admit that his

# This week's assignments:

- In the #solution\_statement channel on Slack, share a short, concise statement of the problem your startup solves.
- Now, in the *#path\_to\_pmf channel*, write three things that you will do to get to product market fit.
- In the #social channel on Slack, tell us one person from history you would like to have dinner with.





