Adrian Pelkus presents:

# "17 Mistakes Inventors Make" And how to avoid them!

# **South Carolina Inventors Forum**



www.southcarolinainventorsforum.org

To Harness Creativity is to turn your idea into profit Approach, then Plan then Execute> APE				
An epiphany is a sudden and striking realization. Innovation is a process of changing, improving and transforming				
Ok, so you have an idea				
Did you capture the idea?				
Is the idea worth developing?				
What do you want to achieve?				
How will you protect the idea?				
How will you convey or show your idea?				
To who, when and why?				

Approach

# When, how and who to start with?

# "12k to 50k" thoughts a day <u>The National Science Foundation</u> (NSF)

### Mistake #1a

### Not acting on the Idea

Don't let your life pass you by!

Procrastination is the road going nowhere on which many great opportunities die

Avoid could have, would have & should have regrets

#### Think positive

Drive, determination & desire moves mountains

Follow simple steps...

### Mistake #1b

### Not Capturing the Idea

It could well be worth the minute!!



### No Early Evaluation of Idea

Think objectively & do market research / don't fall "blindly in love" with your own idea. Be sure there is a market before starting!!!

Factors and

Weights	5	4	3	2	1
Estimated Profitability	Extraordinary	Fantastic	Great	Good	Small Margin
Technical Complexity	Very Simple	Everything is Available	Custom Fab Needed	Custom Design Needed	R&D Required
Industry \$/Year Size	50 Billion+	10 Billion+	1 Billion+	100 Million+	10 Million+
Number of Competitors	<4	>4	>10	>50	>100
Number of Related Patents	<4	>4	>10	>50	>100
IP Uniqueness	Extraordinary	Fantastic	Great	Good	Small Margin
Regulatory Agencies	None	UL/CSA	Off Shore	FDA	>3
Regulatory Acceptance Likeliness	Extraordinary	Fantastic	Great	Good	Small Margin
Development Cost	<\$5K	>\$5K	>\$10K	>50K	>100K
Estimated Unit Sales 1st Year	\$1M+	\$100K+	\$10K+	\$1K+	None

### No Reality check

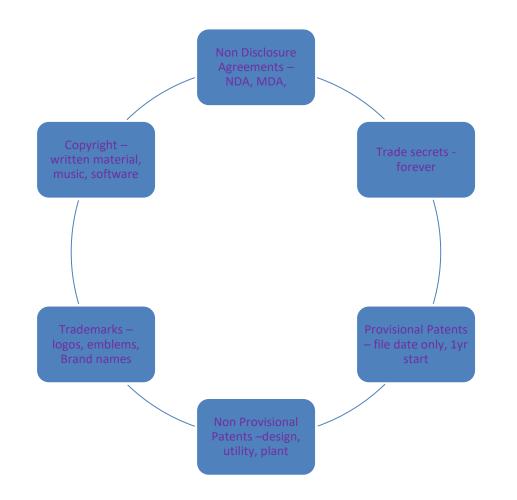
Give yourself, your life and your idea a SWOT analysis first!!!

What do you want to do with your idea LICENSE or build a company?

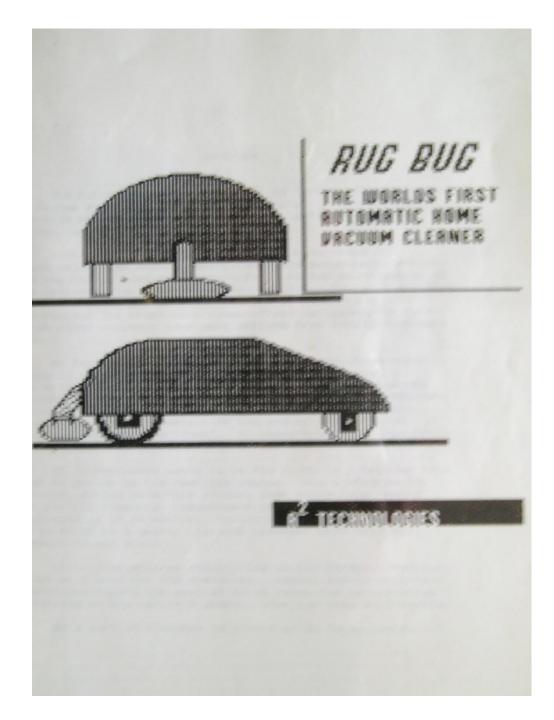
- What can you do
- What cant you do
- What resources do you have
- What do you need
- Who do you know
- Who do you need to know

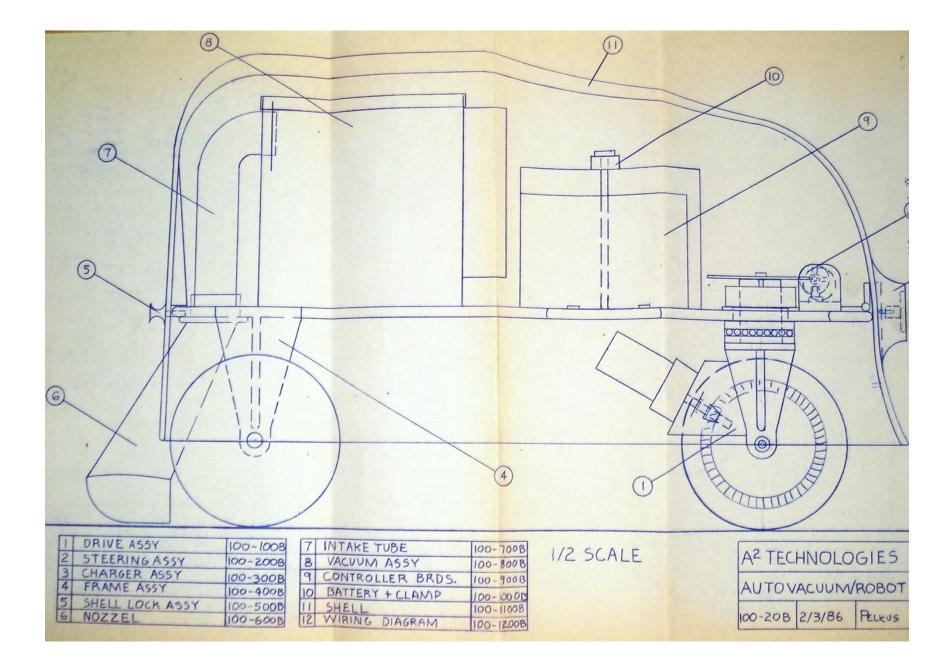
### Not Protecting the Idea

Don't go around "spilling the beans" because "Loose lips sink ships"



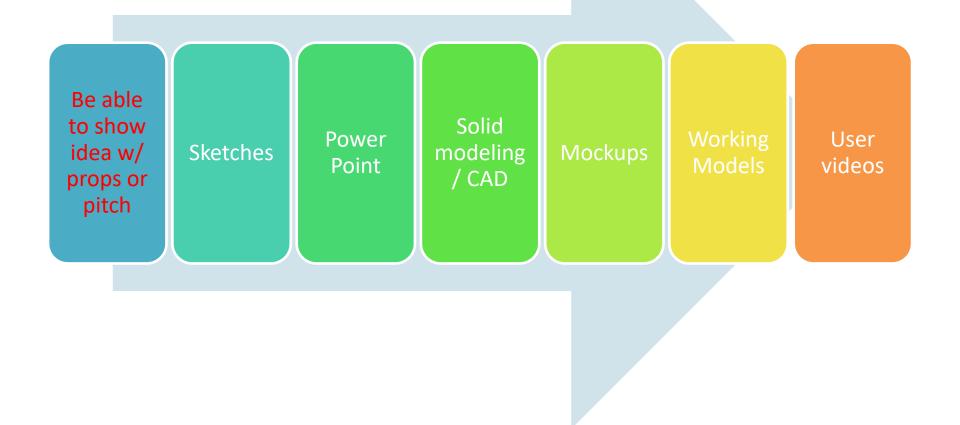






### Poorly Conveying the Idea

### Plan your best presentation



### Presenting Ideas to wrong people @ wrong time

Don't get ahead of yourself or give away the store

F&F – Feedback & seed \$/ protect IP Pros & mentors – Help plan / build team / protect IP Kickstarter & Angels – Startup \$ & network Banks/VC – Business Growth after startup Manufactures + License agreements after IP

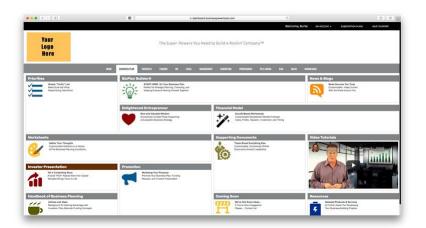


### <u>No Business plan</u>

Most don't plan to fail, they fail to plan

- Your "roadmap" to success 0
- For business proposals 0
- For License agreements 0
- For your own focus 0

### http://www.paloalto.com/ps/bp/





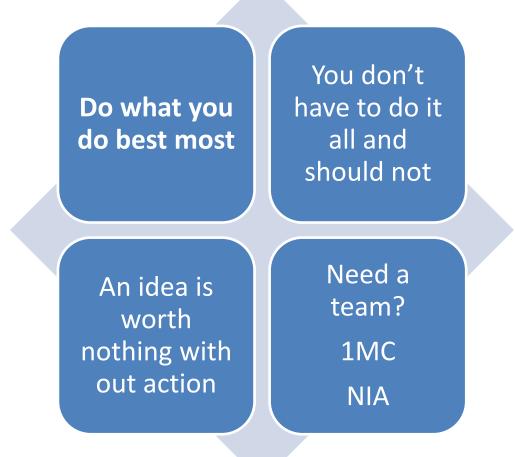
Burke Franklin

-860-1070

www.BusinessPowerTools.com

### No Team

A small team makes a big difference



### Underestimating startup time & costs

Avoiding having to explain why you are not there yet or that you are out of \$

- Startup 1-3 months
- Research 1-3 months
- Funding
- Patents
- R&D
- Mockups
- Tooling
- Marketing

6-36 months

\*3-6 months

- 3 -6 months
- 1-2 months
- \*3-4 months
- 1-3 months



#### Inventor to inventor© "Help for inventors"

New Product Development Plan© 5 Steps Template

#### INSTRUCTIONS

The template on the CD is customizable using Excel.

- There are two spreadsheet pages.
- Page one covers the tasks to go from concept to working model.
- Page two covers the tasks to prepare your presentation.

This is an **Approach**, **Plan then Execute** method to develop a simple electronic product for license or to raise business launch funds.

To begin we recommend printing out both pages of the spreadsheet to reference in Landscape orientation. Stack page one on top page two.

- The time line can be adjusted according to project complexity.
- Software can adds weeks.
- Colors represent individuals & specialties. Fill these in as we go.
- The sequence is logically arranged in order of process.

With resources and enough people the *concept to working model tasks* can happen concurrent with the *preparing to present* tasks.

Before any work begins an **Approach** is used to vet the usefulness of the endeavor. Is the venture worth it and can it be protected? Steps 1 & 2 detail tasks for the **Approach**.

#### TABLE of CONTENTS

Steps		Tasks	Pages
1)	Capture Concept	5	2 - 5
2)	Analyze Concept	2	5 - 6
3)	Plan Concept	13	6 - 13
4)	Plan Presentation	14	14 - 20
5)	Present Presentation	7	20 - 21

#### A Squared Technologies, Inc.

New Product Development Plan© 5 Steps Template - Project Checklist Example - Simple electronic device

#### <u>Task</u>

#### 1 Capture Concept

- 1.1 Sketch and Describe Need
- 1.2 Web Search
- 1.3 Patent Search
- 1.4 Matrix Evaluation
- 1.5 Provisional Patent Filing

#### 2 Analyze Concept

- 2.1 Focus Group Survey
- 2.2 Chart Results

#### 3 Plan Concept

- 3.1 Write Specs and Approve Same
- 3.2 Sketch Mechanism
- 3.3 RFQ ME Work
- 3.4 RFQ EE Work
- 3.5 Source Components
- 3.6 Breadboard and Test Circuit
- 3.7 Design PCB
- 3.8 Design Mechanics
- 3.9 RFQ Production Costs @ 10k
- 3.10 SLA Mechanical Parts
- 3.11 Assemble PCB
- 3.12 Assemble First Model
- 3.13 Test First Model

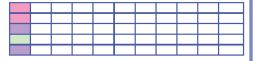
#### 4 Plan Presentation

- 4.1 Logo / Trademark
- 4.2 File
- 4.3 Market Statistics
- 4.4 Competition
- 4.5 Formulate All Costs
- 4.6 List Possible Partners
- 4.7 Mkt Plan / Materials Design
- 4.8 Materials Printing
- 4.9 PPT Stats, Device Rendering, Costs
- 4.10 Video Screenplay
- 4.11 Video Taping
- 4.12 Video Edit
- 4.13 Post Video
- 4.14 Embed in PPT
- 4.15 Practice PPT Presentation

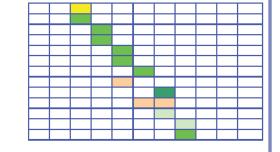
#### 5 Present Presentation

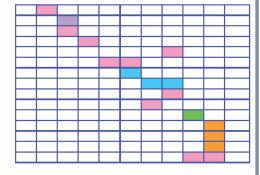
- 5.1 List License Firms or Agents
- 5.2 Talk Top Choices
- 5.3 Pick Agent
- 5.4 Plan Approach
- 5.5 Send Video
- 5.6 Set Meeting
- 5.7 Make Presentation

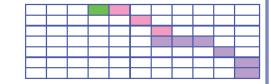












Colors designate roles or persons
KEY
If you know the person's name, fill it in. < NAME < NAM

### To make it happen... Execute

# If its worth doing its worth doing it right!



Set specs

Stay on track

Test before selling



South Carolina's Business One Stop's (SCBOS) mission is to be the one-stop information resource for starting, running, expanding, and relocating businesses in SC.

- Business Resources
  Federal Resources
  State Resources
  Local Resources

  <u>City</u>
  <u>County</u>
  <u>SCORE Resources</u>
- <u>Vet, Women, Minority Resources</u>
  <u>Employer Resources</u>
  <u>Non-Profit Resources</u>



300A Outlet Pointe Boulevard Columbia, S.C. 29210-5666 (803) 898-5690 scboshelp@scbos.sc.gov

### Not Delegating

Being a Team makes accomplishing goals easier and faster



### **Changing specifications**

Finish what you start & stay focused on "Gen 1" release – its not perfect, plan innovation!!

Jell-O specs	Engineering misleading Marketing & vv	Inaccurate market surveys
Make it cheaper mentality	Unproven parts	Obsolete technology

### Sidestep for Tradeshow

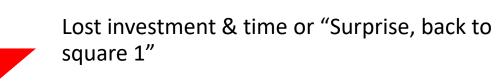
Fastest way to fall off track

- Change R&D schedule = setbacks
- Want it bad you get it bad
- First impressions matter!!
- Next show coming soon

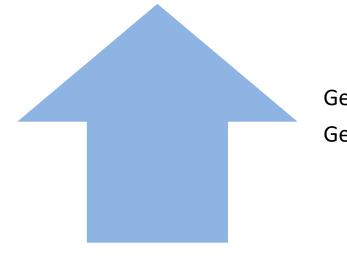
### Not fully testing new product

How to avoid your dream coming back to bite

"Kid tested – mother approved" Material science & physics modeled, Empirically tested, Burn in & "infant mortality" passed



How will people know what you have or have done?



Get seen and known. Get sales and recognition!

> Don't get seen and known. Don't get sales and recognition! Lost investment & time

Mistake #15 Insufficient funding

No \$ plan, plan on no \$

- Resource requirements & finance planning
- Double estimates
- Contingency plan
- Constant pursuit of funds
- Bootstrapping pains
- Debt trumps equity

### Wrong Team

Gears that don't mesh grind

- Not same ethics
- Not qualified /experienced
- Not market connected
- Not optimistic
- Not independent
- Not motivated by the vision
- Not effective

# ...but wait, there's more!

### Pointer #1

### **Bad** investments

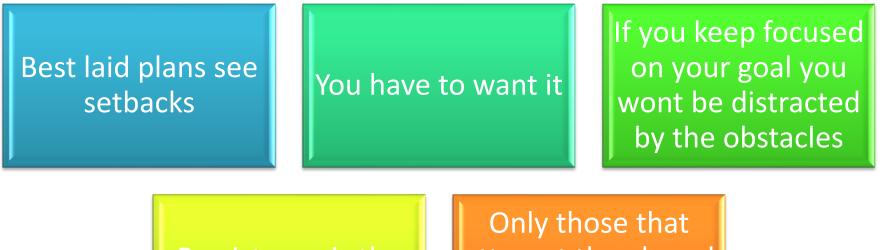
Don't spend \$ like water, consider **advice!!** 



### Pointer #2

### Giving up too soon

Intelligent Persistence pays



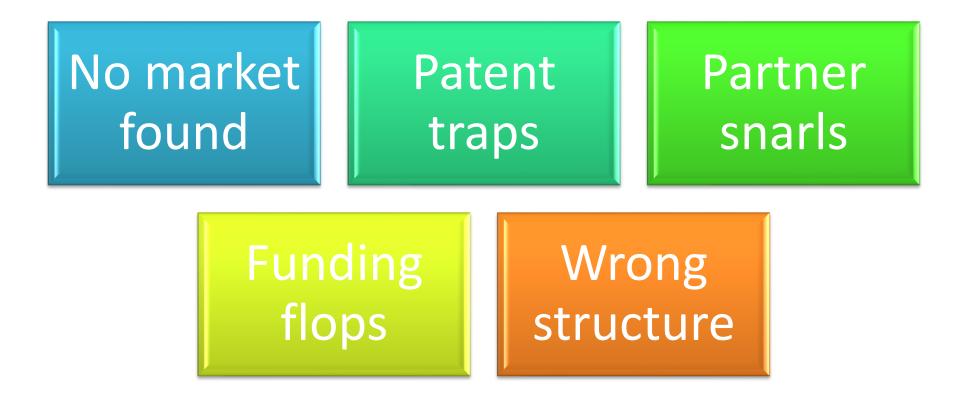
Persistence is the path to success

Only those that attempt the absurd achieve the impossible

### Pointer #3

### Giving up too late

Lessons learned



The four most important things startups need to succeed...



### America's future depends on your ideas!



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