Innovation

OIDD614 - Session 4

Karl T. Ulrich

Course Topics

- What is innovation?
- Need pull vs. solution push
- Internal vs. external innovation
- Horizon 1, Horizon 2, and Horizon 3 innovation
- VIDE success model; value = f(idea, development, exogenous factors)
- Opportunity identification
- Individual vs. group performance in idea generation
- Problem definition using "5 Whys"
- Innovation tournament structure
- Tournament performance levers: N, mean, variance, filter ratios
- Design thinking: observational methods, rapid prototyping, iterative refinement
- Concept exploration/development methods
- Whiteboard 101 (plus more optional visual expression tutorials)
- Branding and naming
- Valuing innovation projects
- Crowdfunding and open innovation
- How to pitch
- Culture of innovation
- Lean innovation/MVP, project planning
- (Project-specific content and methods.)

BLEND8





Lingzini





Some Freelancer Networks

- UpWork (by hour typically)
- Freelancer.com (by job typically)
- Guru.com (more U.S. providers)
- Peopleperhour.com (some eclectic categories)
- Toptal.com (vets candidates)
 (Check Quora for discussions on these and others.)

Accelerators (e.g., Y Combinator) too many to list (see "top 15" article in Tech Crunch)

Example Specs at: http://tinyurl.com/614-specs



Ask or Search Quora

Ask Question















Request •

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100+ Answers



Breanden Beneschott, Freelanced in 17 countries in the last two years 13k Views

Originally Answered: What is the best web site to find freelance coders?

It depends on your technical expertise, price range, willingness to shovel through resumes, hiring timeline, and many other business and/or personal variables.

If you:

Need someone for a very simple side project: You should check out platforms like Elance , oDesk , quru , etc. Unless you're planning on making the project into a business, you probably don't need a top-of-the-line developer and aren't on a tight deadline. These open marketplaces have tons of coders who will bid to work on your project, and you can find a developer for nearly any budget.

Need a serious developer and you have a technical background with a good eye for coding talent: The platforms mentioned above are possible solutions. Keep in mind that you'll have to be willing to deal with a lot of resumes and interviews. Be thorough in your vetting process so that you don't get stuck with a bad hire (tech projects are really risky; see this Arvard Business Review study for more) - you might want to start with a small test project.



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Related Questions

What are the best sites to find high-quality freelance researchers, excluding IT sites?

What are the best freelancing sites out there?

What are the legitimate freelancing sites?

What are the best sites to meet freelancers other than software professionals?

What are the best freelance sites for finding consulting work?

Is there any freelancing site for beginners in coding?

What do you look for in a freelance job site?

What are the best websites for finding good freelance designers?

Which freelance sites are best for beginners, where there is less competition and easy to get jobs relative to other sites?

What is the best freelance website for beginners and why?

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Last Asked Feb 29

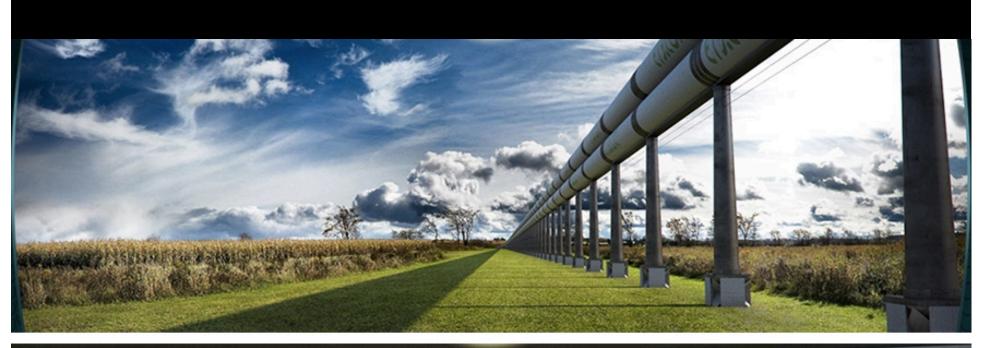






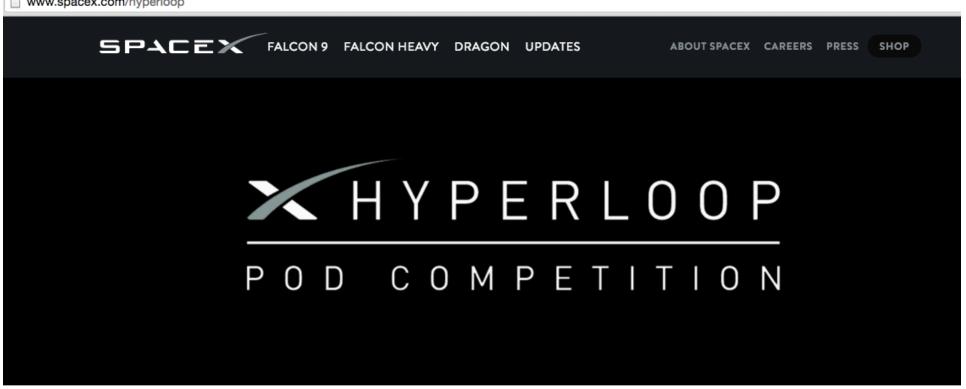












THE OFFICIAL SPACEX HYPERLOOP POD COMPETITION

Watch archived Design Weekend webcast

Since we first unveiled the idea for a new high-speed ground transport system called the Hyperloop back in 2013, there has been a tremendous amount of interest in the concept. We are excited that a handful of private companies have chosen to pursue this effort.

Neither SpaceX nor Elon Musk is affiliated with any Hyperloop companies. While we are not developing a commercial Hyperloop ourselves, we are interested in helping to accelerate development of a functional Hyperloop prototype.

Lean Start Up

http://en.wikipedia.org/wiki/Lean_startup

Eric Ries. 2011. The Lean Startup: How Today's Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses. Crown Business Publishing,

- 1. Minimum Viable Product ("MVP")
 - "continuous deployment"
- 2. Sequencing of tasks.

Antecedents

- "Lean Manufacturing" John Krafcik's Sloan School thesis + International Motor Vehicle Research Program book "The Machine that Changed the World." (Essentially a description of the *Toyota Production System*.)
- Ian MacMillan, Rita McGrath Discovery Driven Planning
- Stephen Blank (Ries' mentor) entrepreneurship courses
- Terwiesch and Ulrich Chapter 8 task sequencing



5 SEGWAY

\$80 mm investment by Kleiner-Perkins, CSFB

Specifications:

- 12.5 mph
- 80 lbs
- 11 miles range
- \$9000 (consumer version \$4950)

Original volume projections: 40,000 units/month by end of 2002.

"I would stake my reputation, my money and my time on the fact that 10 years from now, this will be the way many people in many places get around. If all we end up with are a few billion-dollar niche markets, that would be a disappointment. It's not like our goal was just to put the golf-cart industry out of business"

- Dean Kamen

Timing of Key Problems Tackled by Segway LLC

\$50mm+ 2000-2001

Technical performance

Production capacity

Reliability and robustness

Legality

Patents

Staffing a large organization

\$?? 2002

Where to ride

Which markets

What price point

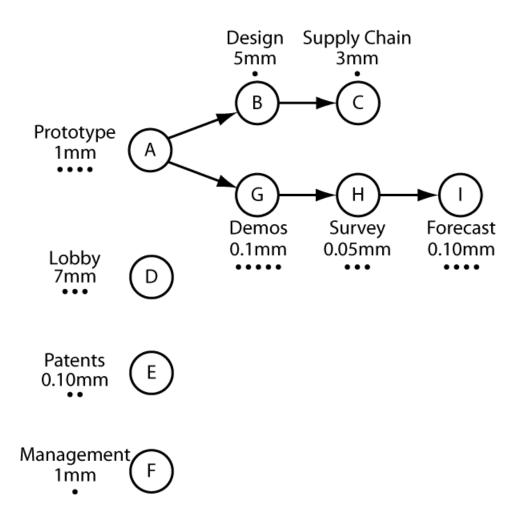
Demand forecast

What benefits

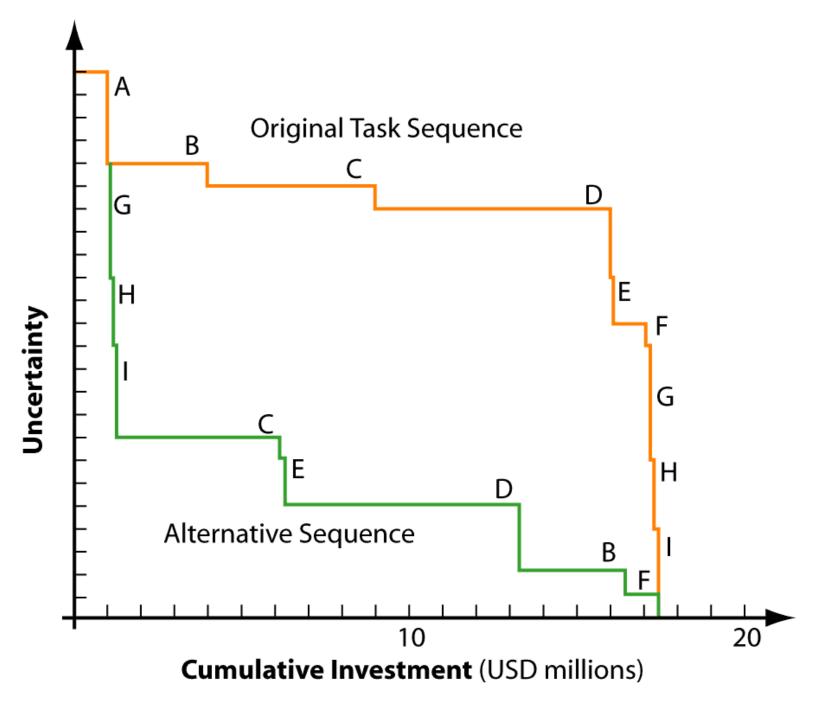
| | Task | Questions Addressed | Effect on Uncertainty | Cost of Task (USD) |
|---|--|--|-----------------------|--------------------------|
| A | Complete alpha prototype design, fabrication, and testing. | Will the technical performance of the product be acceptable? | •••• | 1 mm |
| В | Design supply chain and set up production facility. | Can we establish production capacity? | • | 3 mm |
| С | Complete production-intent design, engineering refinement, life testing. | How reliable and robust can we make the product? | • | 5 mm |
| D | Lobby for new legislation in state and local governments. | In how many states will it be legal to ride on the streets and sidewalks? | ••• | 7 mm |
| E | File patents. | What is the extent of the intellectual property barrier? | •• | 0.10 mm |
| F | Recruit full management team of new company. | Can we establish the structure and personnel to support a large enterprise? | • | 1 mm (+0.50mm/ month) |
| G | Conduct customer interviews and demonstrations. | Which market segments will most resonate with the benefits of the product? What is the core benefit proposition for the product? Where will the user ride the product? | •••• | 0.10 mm |
| Н | Perform competitive product analysis, customer surveys, retailer surveys. | What should be the target price point? | ••• | 0.05 mm |
| I | Complete diffusion modeling, historical comparisons, purchase intent survey. | What is likely to be the sales trajectory? | •••• | 0.10 mm |

Source: Terwiesch and Ulrich, Innovation Tournaments, Chapter 8.

Tasks and Inherent Dependencies



Source: Terwiesch and Ulrich, Innovation Tournaments, Chapter 8.



Source: Terwiesch and Ulrich, Innovation Tournaments, Chapter 8.

Is Lean/MVP always the right approach?



Photo: Boeing via wikimedia

Y Combinator Posthaven

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Y Combinator

Not your average fixed point combinator.

ycombinator.com



Posted 14 days ago March 21, 2016 at 8:05 PM

2,511 views

Boom (YC W16) is Building an Affordable Supersonic Aircraft

by Steven Chan





Adventures in Ice Cream



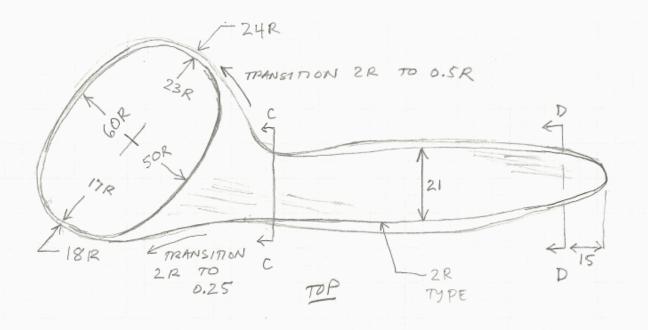


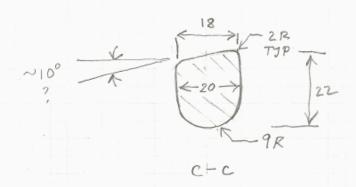


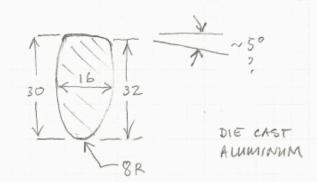


FIXED PIVOTING HANDLE/ OPTIMAL . 5 POSITIONS -> HANDED









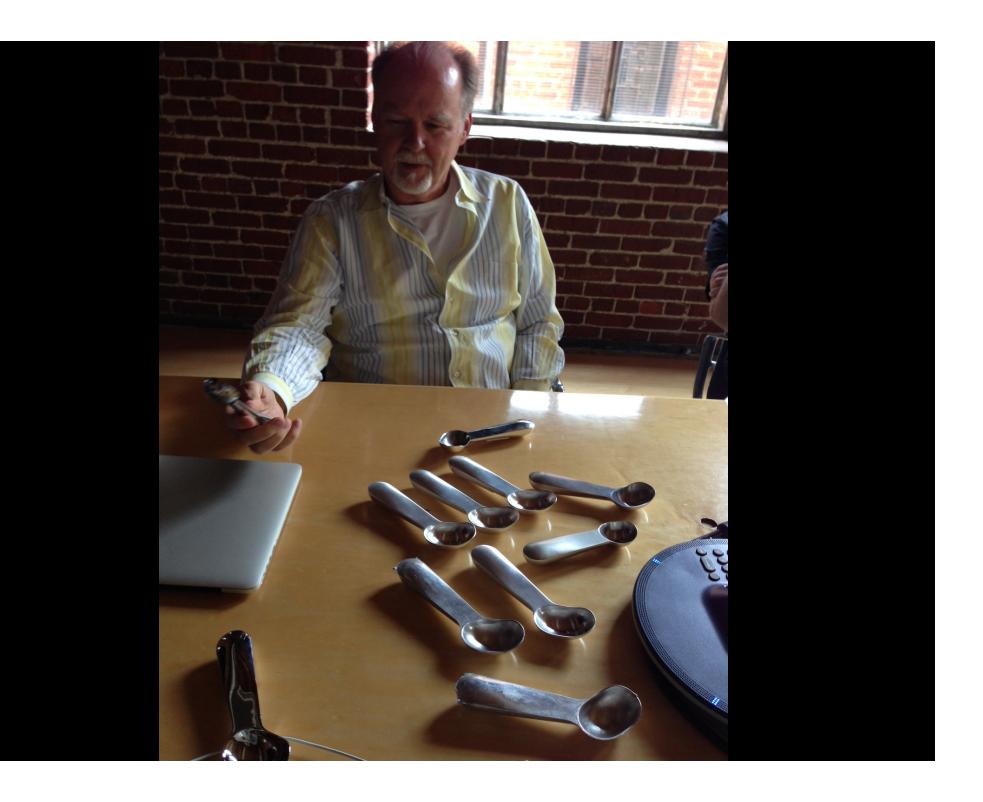






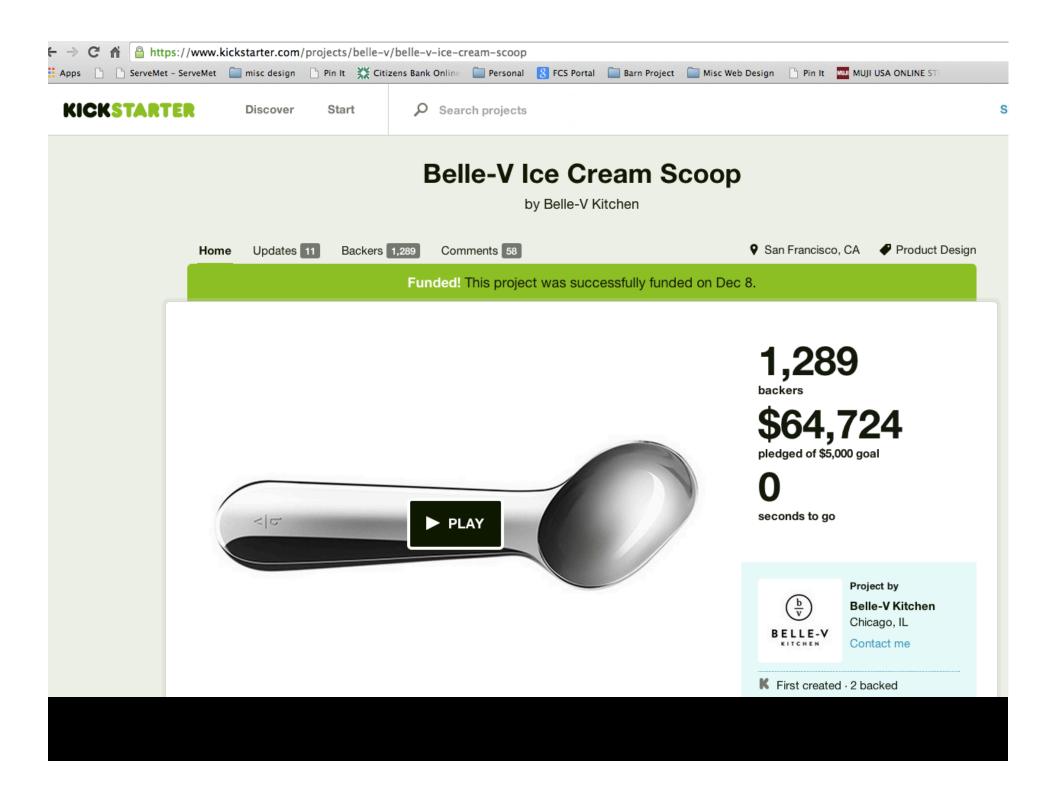












(12) United States Design Patent (10) Patent No.: Ulrich et al.

US D713,219 S

(45) Date of Patent:

** Sep. 16, 2014

(54) ICE CREAM SCOOP

- (71) Applicant: Belle-V, LLC, Chicago, IL (US)
- Inventors: Karl T. Ulrich, Philadelphia, PA (US); Jeffrey Allen Salazar, Palo Alto, CA (US); Alan J. Cook, Chicago, IL (US); Jeff Smlth, San Francisco, CA (US); Kevin John Augustyniak, Elma, NY (US); Gerard Furbershaw, Menlo Park, CA (US); Kenneth D. Wood, Portola Valley, CA (US)
- Assignee: Belle-V, LLC, Chicago, IL (US)
- 14 Years
- Appl. No.: 29/468,569
- Oct. 1, 2013
- U.S. Cl. (52)D7/681 USPC
- (58) Field of Classification Search

| CPC | A47J 43/282 |
|------|------------------------------------|
| USPC | D7/680-696, 368, 669, 395, 393; |
| | 30/324-328; 425/187, 276-286, 299, |
| | 425/DIG. 13; 294/176-180 |

See application file for complete search history.

(56)References Cited

U.S. PATENT DOCUMENTS

| D475,899 | S | | 6/2003 | Ming-Shiue | D7/681 |
|----------|---|---|--------|------------|--------|
| D501,374 | S | | 2/2005 | Crowley | D7/681 |
| D505,303 | s | * | 5/2005 | Crowley | D7/681 |

^{*} cited by examiner

Primary Examiner - Terry Wallace (74) Attorney, Agent, or Firm - Michael J. Femal; Much

CLAIM

The ornamental design for an ice cream scoop, as shown.

DESCRIPTION

FIG. 1 is a perspective view of an ice cream scoop with a two piece handle showing our new design;

FIG. 2 is a right side elevation of the ice cream scoop of FIG.

FIG. 3 is a left side elevation of the ice cream scoop of FIG. 1; FIG. 4 is a top end view of the ice cream scoop of FIG. 1; FIG. 5 is a bottom end view of the ice cream scoop of FIG. 1;

FIG. 6 is a top view of the ice cream scoop of FIG. 1; and

FIG. 7 is a bottom view of the ice cream scoop of FIG. 1.

FIG. 8 is a perspective view of an ice cream scoop of an unitary construction showing our new design;

FIG. 9 is a right side elevation of the ice cream scoop of FIG.

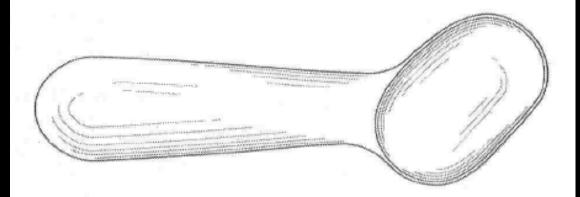
FIG. 10 is a left side elevation of the ice cream scoop of FIG.

FIG. 11 is a top end view of the ice cream scoop of FIG. 8; FIG. 12 is a bottom end view of the ice cream scoop of FIG.

FIG. 13 is a top view of the ice cream scoop of FIG. 8; and,

FIG. 14 is a bottom view of the ice cream scoop of FIG. 8.

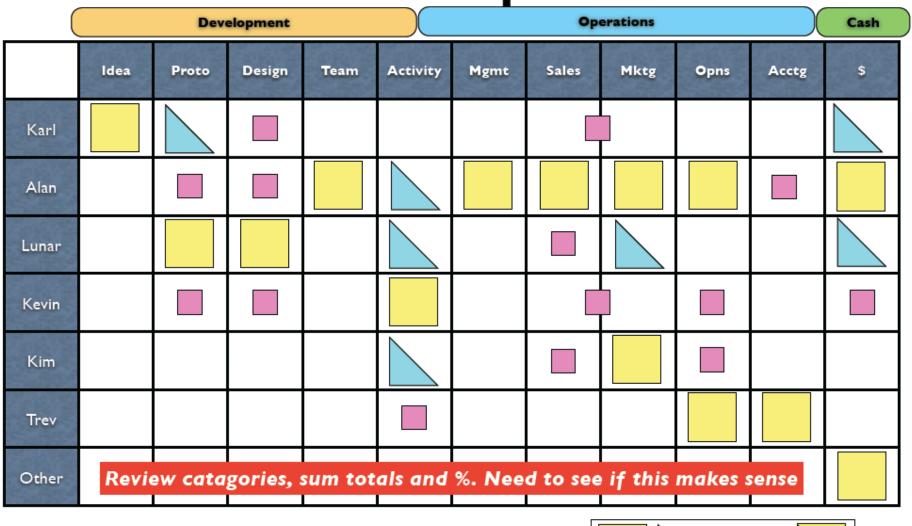
1 Claim, 6 Drawing Sheets





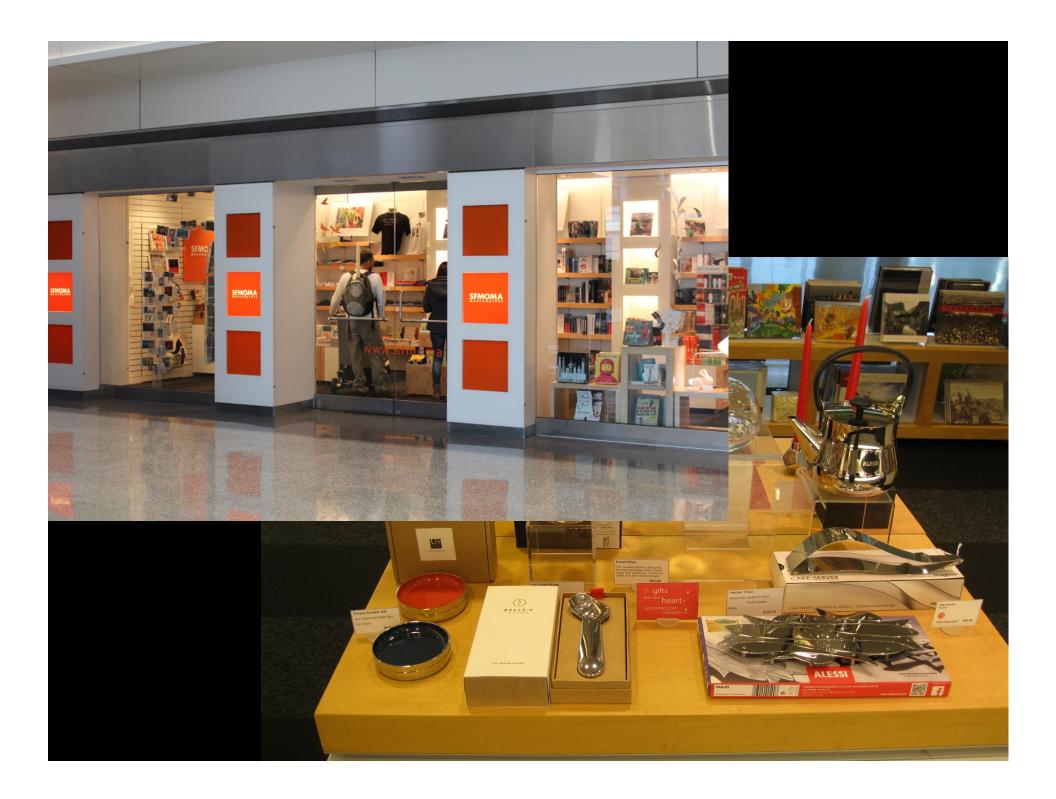
III Concept for discussion only !!!

Ownership Model



Corporate







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INDUSTRIAL DESIGNERS SOCIETY OF AMERICA

Belle-V



2014

The Belle-V ice cream scoop is a solid aluminum scoop with a classic, ergonomic design that is made to last. The angled head works with the natural rolling action of a user's wrist to give maximum leverage to easily scoop the hardest ice cream. The spade-shaped edge helps users get into those hard-to-reach corners at the bottom of the ice cream container.

Designed by Jeff Salazar, IDSA, Karl Ulrich, Alan Cook, Gerard Furbershaw, Jeff Smith, Junggi Sung and Ken Wood of Belle-V

Contact: Naomi Kieser - naomi@lunar.com

Kitchens

Silver







Belle-V, LLC

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BILL TO

SHIP TO

Karl Ulrich

Karl Ulrich

3740 Walnut Street, Suite 500 Philadelphia, PA 19104 3740 Walnut Street, Suite 500 Philadelphia, PA 19104 DATE 09/03/2015 TERMS Net 30

DUE DATE 10/03/2015

INVOICE 1087

SHIP DATE 09/03/2015

| DATE | ACCOUNT SUMMARY | AMOUNT |
|------------|--|------------|
| 05/31/2015 | Balance Forward | \$3,280.00 |
| | Payments and credits between 05/31/2015 and 09/03/2015 | -3,280.00 |
| | New charges (details below) | 3,328.00 |
| | Total Amount Due | \$3,328.00 |

| ACTIVITY | QTY | RATE | AMOUNT |
|--|-------------------------|-------|----------|
| Scoop-Stainless-Right Ice Cream Scoop STAINLESS RIGHT | 64 | 22.00 | 1,408.00 |
| Bottle-Opener Bottle Opener | 96 | 20.00 | 1,920.00 |
| THANK YOU FOR YOUR BUSINESS! " ACCOUNTING QUESTIONS? CALL OR EMAIL KIM PARKS AT PARKS@BELLE-V.COM OR (773) 301-8982. | TOTAL OF NEW CHARGES | | 3,328.00 |

Ulrich

TOTAL DUE

\$3,328.00