بسم الله الرحمن الرحيم

در مسیر کارآفرینی دانش بنیان

جلسه ی دوم

رضا لطفي

استاد گروه مهندسی برق دانشگاه فردوسی مشهد و رییس بنیاد نخبگان خراسان رضوی



هدف از برگزاری این نشست ها

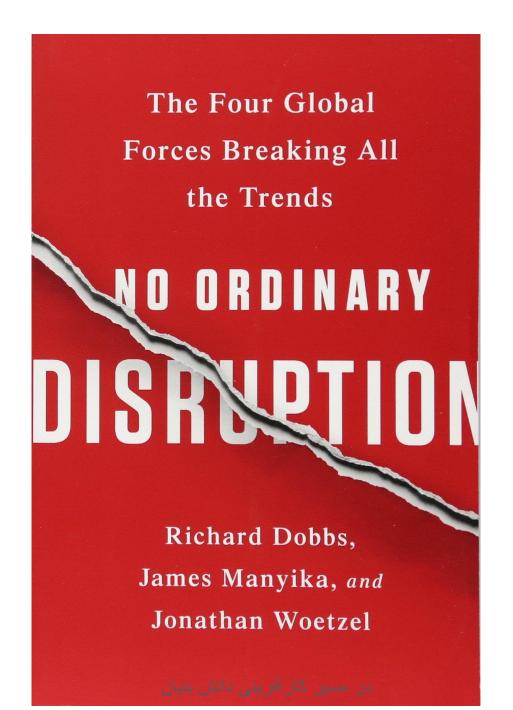
- هم مى توانيم و هم بايد «بيشتر» ارزش آفرين باشيم.
- مهمترین ضعف ما در این مسیر، عدم آشنایی کافی ما با «طرز فکر کارآفرین» و «مسیر کارآفرینی دانش بنیان» هست.

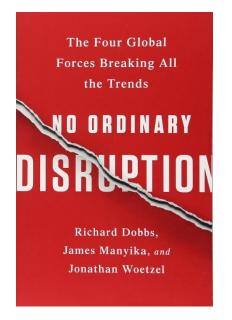
سرفصل مطالب اين هشت جلسه ان شاء الله

- 1. طرز فكر و طرز فكر رشد
- 2. نوآفرینی و طرز فکر نوآفرینی
 - Design thinking .3
- 4. از ایده شروع کنیم یا از مساله؟ چه مسائلی ارزش حل کردن دارند؟
 - 5. بوم کسب و کار و بوم نوآفرینی
 - 6. خلاقیت و حل خلاقانه ی مسائل
 - 7. ویژگی های یک تیم خوب / هنر جذب سرمایه
 - 8. فرهنگ کار / آنچه در دانشگاه نمی آموزیم

سرفصل مطالب

- ضرورت تغییر و نوآفرینی
 - تعاریف نوآفرینی
 - طرزفکریک نوآفرین
- برای اصلاح طرز فکرمان چه کنیم؟
 - جمع بندی

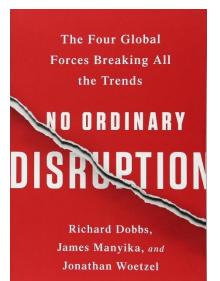




۱. جابجایی مرکز فعالیتهای بزرگ اقتصادی

مثلا: دفتر مرکزی کمپانی های بزرگ و بین المللی

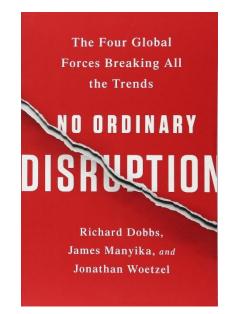
- سال ۲۰۰۰: ۹۵ درصد در کشورهای توسعه یافته
- سال ۲۰۲۵: حدود ۵۰ درصد در بازارهای نوظهور و در کشورهای در حال توسعه



٢. سرعت تحولات فن آورانه

مثلا:

- ۵۰ سال طول کشید تا نیمی از مردم آمریکا دارای تلفن شدند.
- حدود ۳۸ سال طول کشید تا ۵۰ میلیون نفر از مردم آمریکا از رادیو استقبال کنند.
- اما Facebook در سال اول فعالیتش ۶ میلیون نفر را و در ۵ سال بعد ۶۰۰ میلیون نفر را جذب کرد.
- در سال ۲۰۱۴، اپلیکیشن های تلفنهای هوشمند حدود ۷۵ میلیارد بار دانلود شده بودند.

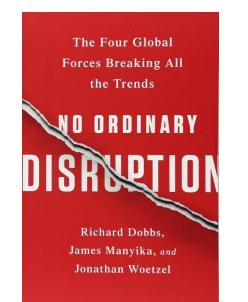


۳. پیری جمعیت جهان

مثلا:

• برای اولین بار در تاریخ بشر، در اغلب مناطق دنیا جمعیت تقریبا ثابت است.

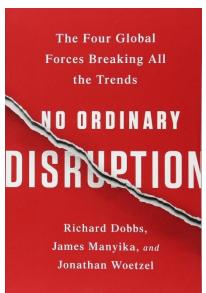
> • در سال ۲۰۱۳، حدود ۶۰ درصد مردم دنیا در مناطقی زندگی میکردند که نرخ باروری پایین تر از نرخ جایگزینی بوده است.



۴. ارتباطات گسترده تر جهانی

•در سال ۲۰۰۹، یک میلیارد نفر از مردم دنیا از مرزها عبور کردند (پنج برابر سال ۱۹۸۰).

- •بین سالهای ۱۹۸۰ تا ۲۰۰۷، Global Capital Flows رشدی ۲۵۰۰ درصدی را تجربه کردند.
 - تجارت «مجازی» رشدی بی سابقه را تجربه می کند.



• وقوع همزمان این چهار واقعیت (در کنار روندهای متعدد دیگر)، باعث شده است که جهان نسبت به آنچه که ما در آن بزرگ شدیم، دستخوش تغییرات قابل توجهی شود.

در نتیجه

- درک شهودی ما از دنیا نیز نیازمند یک «بازنگری موشکافانه» است.
- اگر به دنیا تنها از آیینه ی عقب خودرو نگاه کنیم و فقط بر اساس در ک شهودی مبتنی بر تجربیاتمان تصمیم بگیریم، ممکن است دچار اشتباهات بسیار فاحشی بشویم.

• تغییر چیزی نیست که همراه با یک چک لیست بیاید. در دنیایی زندگی می کنیم که بادها و دریا دائما در حال تغییر هستند و گنج دو بار در یک مکان پنهان نمی شود. در عوض، آنچه ما در اختیار داریم، یک قطب نما است.

• وظیفه ی ما ایجاد طرز فکر، فرهنگ و روابطی است تا انسانهای داخل سیستممان به گونه ای توانمند شوند که بخواهند و بتوانند که بادبانها را در هر شرایط آب و هوایی در جهت جدید و صحیح تنظیم کنند.



از مقدمه ی ناشر در کتاب The Innovator's Mindset

نوآفرینی یا innovation چیست؟

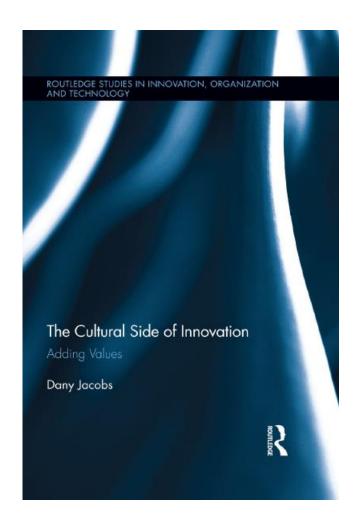
- > "Successful exploitation of new ideas"
- Commercial application of an idea, its introduction into a market"
- Something new, which is presented in such a way that the value will be determined by the selectors"

Innovation is the creation of better or more effective products, processes, services, technologies, or ideas that are *accepted by markets, governments, and society.*

Innovation can be an idea, a strategy, a process or a product, *as long as it is solving a problem* in a new and better way.

"Innovation distinguishes between a leader and a follower," Steve Jobs.

- Product Innovations
- Process innovations
- Transaction Innovations





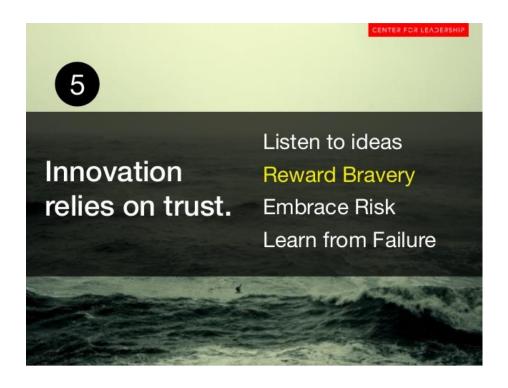


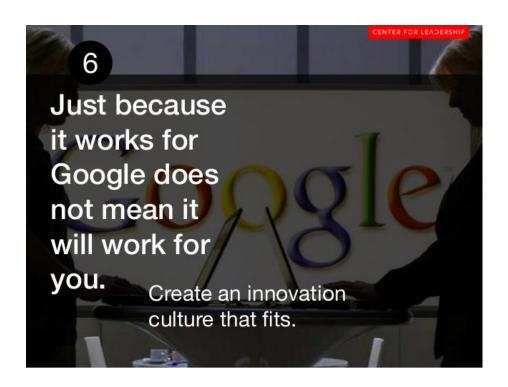




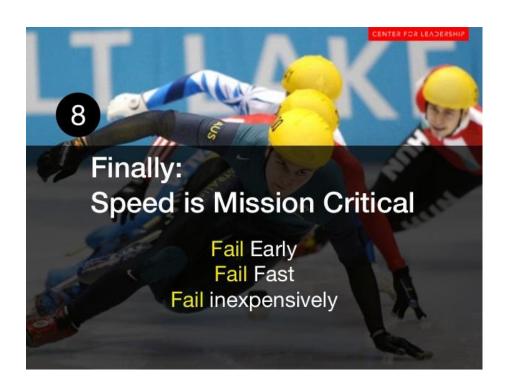












کر زیاد به گوشمان می خورد که: کر من نرسیده بود؟

يا

من سالها قبل به این موضوع فکر کرده بودم؛ اما پول لازم برای اجرای اون رو نداشتم...

﴿ برای اینکه «نوآفرینی» تحقق پیدا کند، نیازمند تغییر قابل ملاحظه ای در «طرز فکر»مان هستیم.

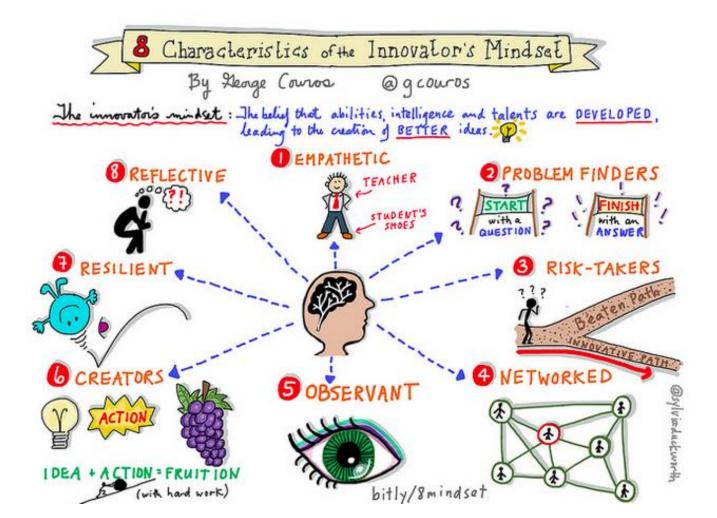
- ➤ Definition: specific state of mind which orientates human towards innovation activities.
- > People with innovation mindsets believe that:
 - > innovation is needed and beneficial.
 - > they can make a difference through innovation.
 - > they have or can have abilities to innovate.
- > Innovators share growth mindset.

- > Individuals with innovation mindsets:
 - riven by willingness to create and/or challenging the status quo,
 - > want to make a difference,
 - share resilience in achieving goals,
 - > love change,
 - > are open for failure and learning



- Four essential principles of innovation mindset (Richard Wiseman):
 - 1. Creating luck by noticing and acting on opportunities
 - 2. Expecting that one can create luck through perseverance
 - Making decisions which are informed by the well-honed intuition
 - 4. Resisting the negative by finding and even creating the bright side of every situation





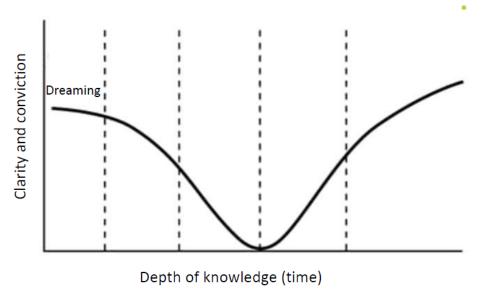
Situation	Fixed	Growth	Innovator's
	Mindset	Mindset	Mindset
Challenges	Challenges are avoided to maintain the appearance of intelligence.	Challenges are embraced stem- ming from a desire to learn.	Challenges are sought out and seen as an oppor- tunity for growth and development.
Obstacles	Giving up in	Showing persever-	When obstacles
	the face of	ance in the face	arise, the thinking
	obstacles and	of obstacles and	is shifted to look
	setbacks is a com-	setbacks is a com-	for opportunities
	mon response.	mon response.	and possibilities.
Effort	Having to try or put in effort is viewed as a nega- tive. If you have to try, you're not very smart or talented.	Doing hard work and putting in effort paves the path to achieve- ment and success.	Hard work and effort are continu- ous, and we look to make time to create new solu- tions and ideas for growth.

Situation	Fixed Mindset	Growth Mindset	Innovator's Mindset
Criticism	Negative feedback, regardless of how constructive, is ignored.	Criticism provides important feed- back that can aid in learning.	Criticism provides important feed-back which creates the opportunity to implement new and better ideas for learning from others.
Success of Others	Other people's success is viewed as a threat and evokes feelings of insecurity or vulnerability.	Other people's success can be a source of inspiration and education.	Other people's success is learned from, and something we modify and apply in our own context to create our own success.

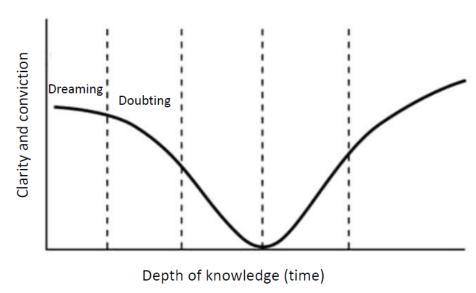




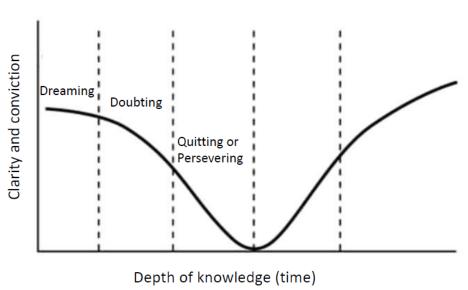




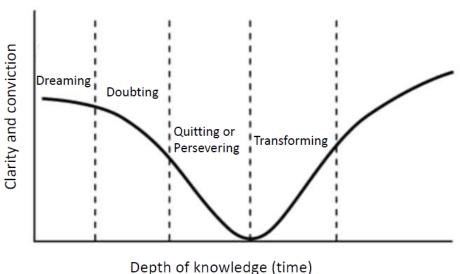
At the beginning of any strategic innovation initiative, everyone's excited and optimistic. They believe they've got a great idea and they're going to rule the world (Dreaming).



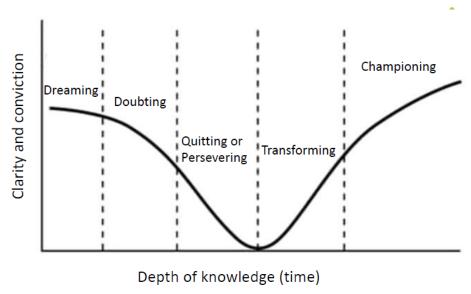
Then \$%^&
happens as it
always does and
we face failure
(**Doubting**). It's
never as easy as
we thought it
would be. Failure
is a natural and
useful element of
innovation... it's
how we learn and
adapt our
solutions. Or
determine it's time
to try another
challenge.



As we develop innovative concepts into real-world practical solutions, we're learning more, the problem isn't as simple and we begin to truly understand the complexity of the challenge. It's this 3rd stage (Quitting or Persevering) that truly separates innovators from dreamers.



Those that persevere and don't quit often experience a transformation al experience of having worked through the challenges.



Having worked through the challenges and acquiring a new confidence built upon deep knowledge and experience result in championing.

Academic and Behavioral Effort Rubric

Coalition School for Social Change

Name:	
Class: _	

Measure of Effort	4	3	2	1
Asking Questions	You asked specific questions to make connections and push your thinking and asked for help as needed.	You asked questions to make connections and clarify your thinking and asked for help.	You asked few questions to make connections and sometimes asked for help.	You did not ask questions to make connections or for help.
Perseverance	You kept trying when the task was hard. You had stamina to work until the task was completed.	You kept trying when the task was hard. You asked for support, you asked questions to help you focus and move forward.	You almost stopped when the task became difficult. You needed to be prompted to use supports. When prompted you may have asked follow-up questions.	You did not stick with the task when you had difficulty and you did not ask for support.
Seeking and Applying Feedback	You frequently sought feedback during the task and applied it confidently, thoroughly, and thoughtfully. You asked for help up until you completed the task.	You acknowledged feedback during the task and applied most of it. You attempted to use feedback to make corrections. You asked follow-up questions when you got stuck.	You accepted feedback but were unable to apply it or only applied a few of the easier things. You did not ask for help and assumed you were done when you applied the feedback.	You were unable to accept feedback and didn't apply it.
Going Beyond the Minimum Requirements	You challenged yourself by extending far beyond the minimum requirements of the task.	You completed the task fully, going beyond the minimum requirements.	You completed the minimum requirements of the task.	You completed less than the minimum requirements of the task.

Developed by Randi Albert, Sara Powers, and John Sullivan (Coalition School for Social Change) in collaboration with Eskolta and the NYCDOE Office of Postsecondary Readiness

پنج توصیه

From the University of Virginia's Darden School of Business, "Design Thinking in Business Innovation" Program

از آنجا که مغز انسان می تواند بر اساس افکار تازه و رفتارهای جدید، مدارهایش را توسعه دهد و خودش را دوباره سیم بندی کند، اینگونه آغاز کنیم:

«هر روز» زمانی را به نوشتن افکارمان اختصاص دهیم؛
 اینکه به چه می اندیشیم و چرا

Daily Reflections

 هر گاه خودمان را در طرزفکر بسته و یا ثابت یافتیم، علتش را جویا شویم:

آیا با تغییر راحت نیستیم

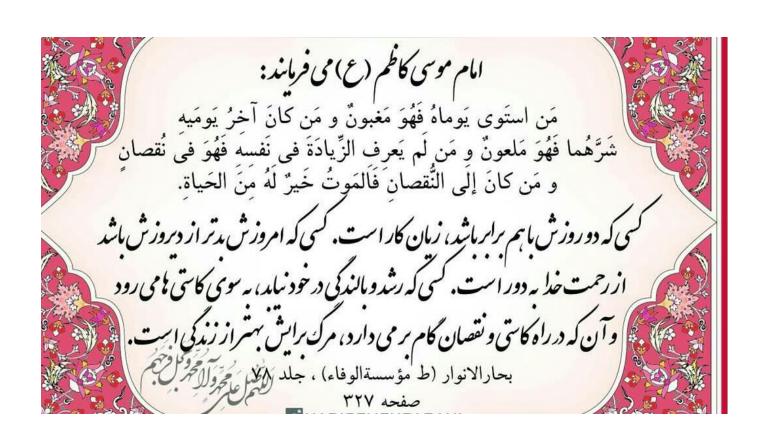
و يا

از اینکه اشتباه کنیم میترسیم؟

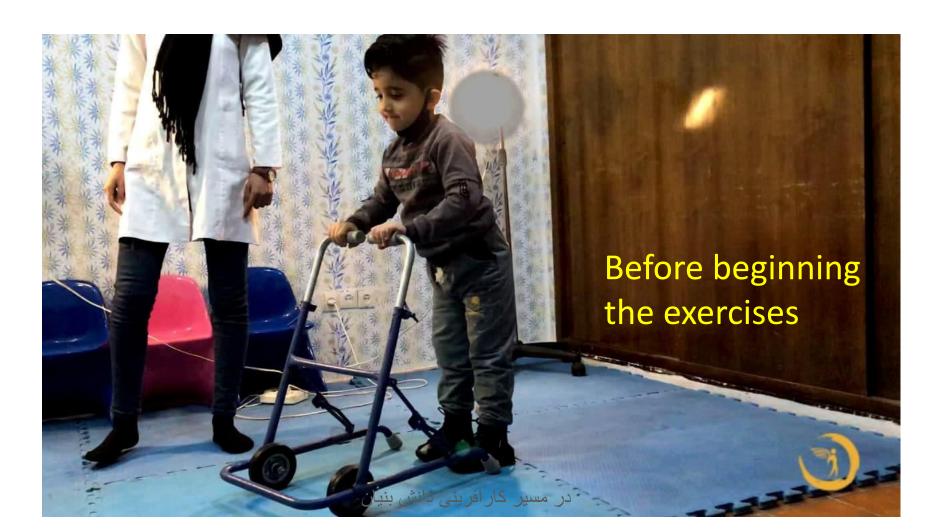
۳. این را اولویت خود قرار دهیم که هر روز مطلب جدیدی را یاد بگیریم یا چیزی جدید را امتحان کنیم.

۴. بیش از آنکه پاسخ می دهیم سوال بپرسیم.

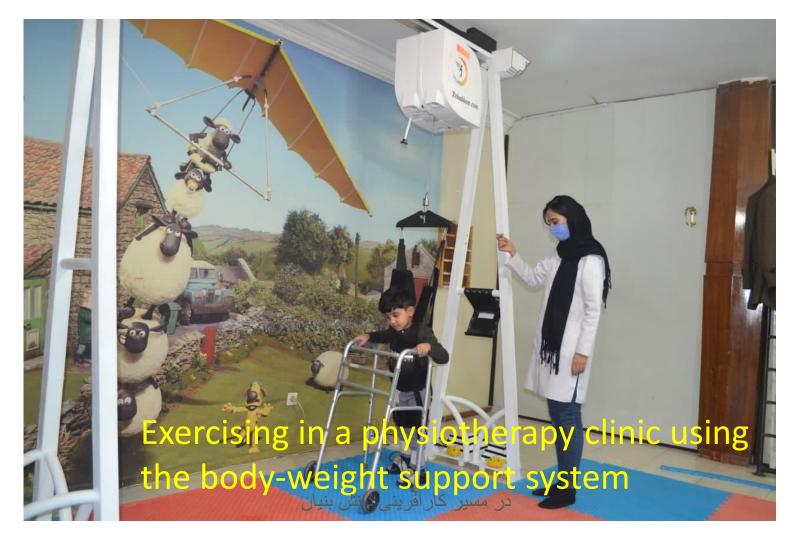
۵. حداقل هفته ای یک بار کاری انجام دهیم که ما را فراتر از قابلیتهای فعلی مان رشد دهد.















یک مثال







یک مثال

Body-weight support system for CP children





After 18 sessions of exercising in a physiotherapy clinic using the body-weight support system, the child can walk

بيانديشيم

- چقدر در تقویت ویژگی های هشت گانه ی یک نوآفرین در خودمان کوشا هستیم؟
 - چه مسائلی در اطراف و در زندگی خودمان می بینیم که نیاز مند راه حلهای نوآفرینانه هستند؟

بيانديشيم

• تغییر چیزی نیست که همراه با یک چک لیست بیاید. در دنیایی زندگی می کنیم که بادها و دریا دائما در حال تغییر هستند و گنج دو بار در یک مکان پنهان نمی شود. در عوض، آنچه ما در اختیار داریم، یک قطب نما است.

• وظیفه ی ما ایجاد طرز فکر، فرهنگ و روابطی است تا انسانهای داخل سیستممان به گونه ای توانمند شوند که بخواهند و بتوانند که بادبانها را در هر شرایط آب و هوایی در جهت جدید و صحیح تنظیم کنند.

از مقدمه ی ناشر در کتاب The Innovator's Mindset



خیلی از توجه شما سپاسگزارم و التماس دعا دارم.

رضا لطفی rlotfi@ieee.org



در مسیر کارآفرینی دانش بنیان

Backup Slides

The New York Times

Opinion

How to Get a Job at Google



By Thomas L. Friedman

Feb. 22, 2014









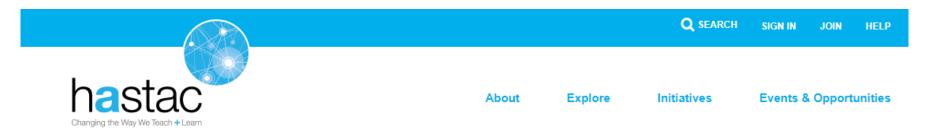


295

- Google attracts so much talent it can afford to look beyond traditional metrics, like G.P.A.
- For most young people, though, going to college and doing well is still the best way to master the tools needed for many careers...
- Beware. Your degree is not a proxy for your ability to do any job.
- The world only cares about— and pays off on what you can do with what you know and it doesn't care how you learned it.

- Five hiring attributes that the company desires in its employees:
- 1. Cognitive Ability: "The ability to process on the fly."
- 2. **Leadership**: Emergent leadership vs. traditional leadership. As a leader, do you recognize the times when you need to relinquish power?
- 3. **Humility**: The ability to say, "I don't know," and be able to step back and embrace better ideas.
- 4. **Ownership**: Understanding that an organizational problem is also your problem, and working together to solve it is crucial.
- 5. **Expertise**: This is listed as the least important attribute, because thinking you already know the answer can keep you from exploring new options.

- Friedman closes with a note to which schools should pay close attention:
- •"In an age when innovation is increasingly a group endeavor, it [Google] also cares about a lot of soft skills—leadership, humility, collaboration, adaptability, and loving to learn and re-learn. This will be true no matter where you go to work."



Home > Groups > HASTAC #FutureEd > How to Get a Job at Google: Rsp to NYTimes Tom Friedman #FutureEd

BLOG POST









How to Get a Job at Google: Rsp to NYTimes Tom Friedman #FutureEd

By Cathy Davidson on April 20, 2014

Usually when my blogs are a "response to the New York Times," it is to disagree, push back, emend, quibble, or rant. Today, I am reading Thomas Friedman's "How To Get a Job at Google, Part II," with enormous pleasure and satisfaction and a sense of confirmation. Friedman's interview with Laszlo Bock. the man in charge of all hiring at Google, confirms what I have learned from many workshops and interviews with both job recruiters and CEOs of Fortune 100 companies. They often share our #FutureEd vision for higher education: the single most important thing anyone can do in college is think deeply,



Cathy Davidson

HASTAC Co-founder and Director. 2002-2017: Co-director, 2017- . Distinguished Professor and Founding Director, The Futures Initiative The Graduate Center, CUNY @CathyNDavidson

Topic

Teaching & Learning Practices

Page Views: 1479

190

- The single most important thing anyone can do in college is think deeply, profoundly, and strategically about
 - why you are there...
 - what you want to take away from the most diverse, intense, rich learning opportunities you will ever be given the time to embrace

