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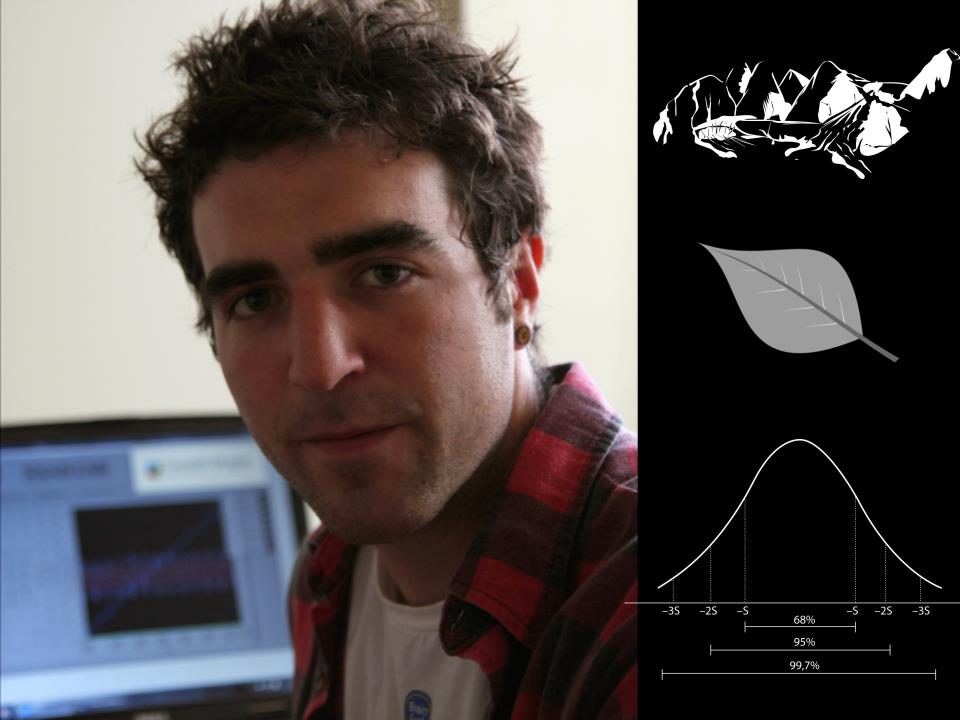
Session C: Student-Centric Entrepreneurial Mindset

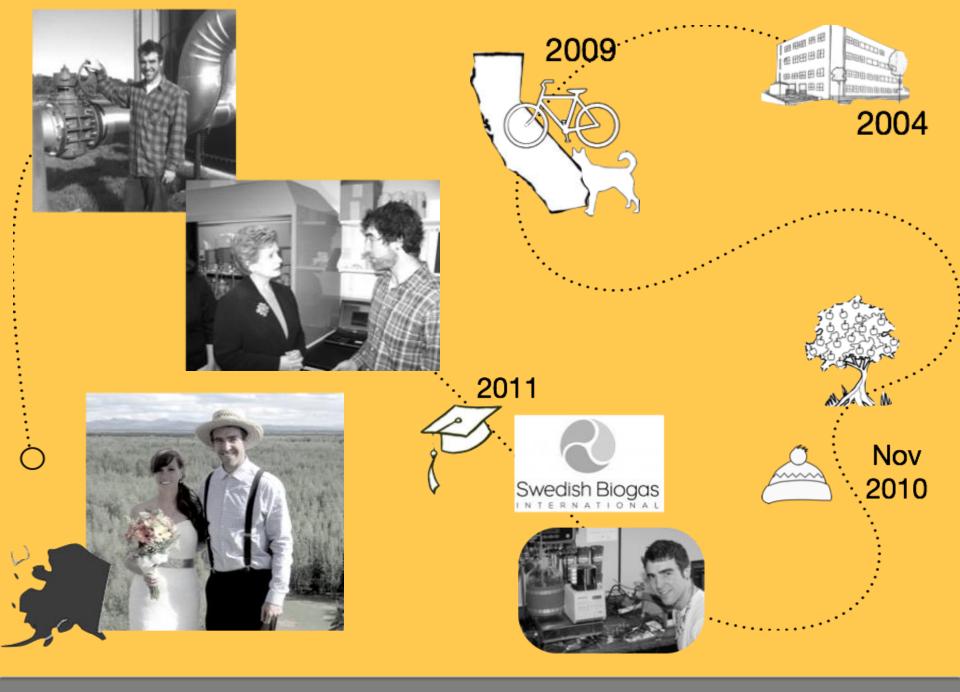
Doug Melton Kern Family Foundation





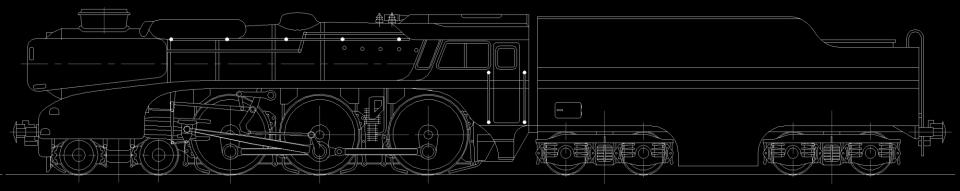
TO CREATE TRANSFORMATIVE EDUCATIONAL EXPERIENCES, CONNECT TO PASSIONS



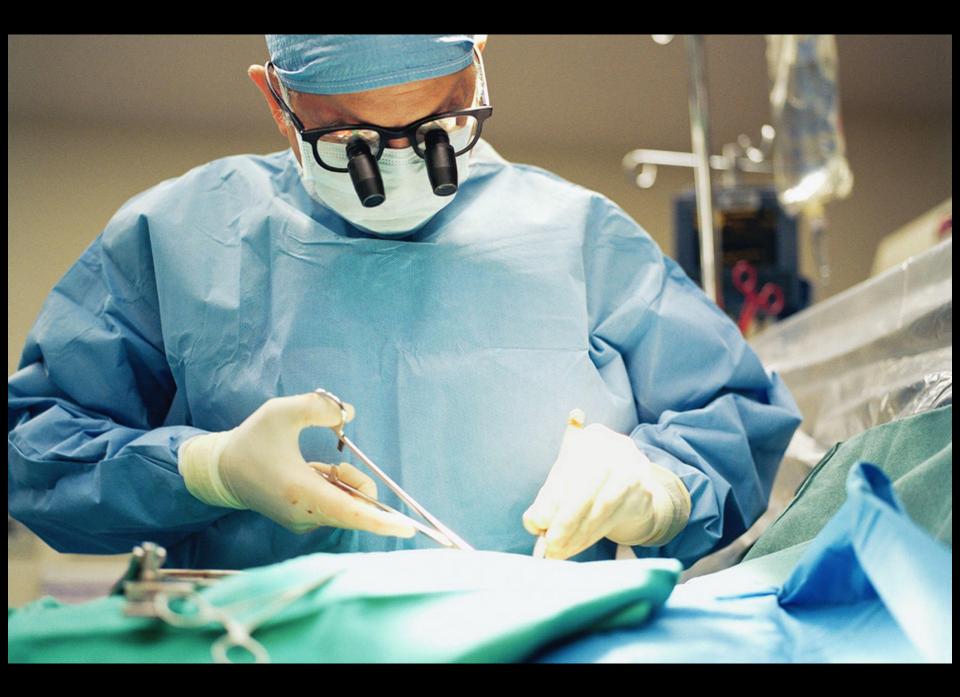


EPICENTER RESEARCH SUMMIT August 4-5, 2014 Stanford University

ENTREPRENEURIAL MINDSET IS THE ENGINE OF VALUE CREATION



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KEEN Framework For Engineering Education

Mindset

		Mindset K9en	
	KEEN Student Outcomes		
Entrepreneurial Mindset	Enterprising Attitude	Exercise carboty about the surrounding world LSO T Define problems, opportunities, and solutions is terms of value creation Assess risk. Persist; through and learn from failure Demonstrate resource/almes Anticipate: technical developments by interpreting surrounding tooletal and economic trends Identify must basiness opportunities	
coupled with Engineering Thought and Action	Multidimensional Problem Solving	Apply creative thinking to ambiguous problems RSO 2 Apply systems thinking to complex problems Examine scholar feasibility, economic drivers, and societal and individual needs Act upon analysis	
expressed through Professional Skills	Productive Collaboration	Collaborato in a team setting KS03	
	Illuminating Communication	Communicate engineering solutions in economic terms Substantiate claims with data and facts	
and founded on Character	Resolute Integrity	Pursue personal fulfilment as a member of a profession that creates value KSO5 Identify personal passions and a plan for professional development Fulfill commitments in a stressly manner Discern and pursue ethical practices Contribut in society as an active ottain	

Customized To Engineering

Engineering and Business skills 92

Skills



Entrepreneurial Mindset

Curiosity

Constant curiosity about our changing world

Connections

Habitually integrating information from many sources to gain insights

Creating Value

Identifying unexpected opportunities to create value — and learning through actions and experiences

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AN ENTREPRENEURIAL MINDSET CAN BE APPLIED TO ANY SITUATION

KEEN is not aimed at:

- new ventures,
- commercialization, or
- invention.

Most graduates will become **intrapreneurs**, creating value through existing organizations.



DESIGN AND SYSTEM ENGINEERING

Determine Design Requirements

Perform Technical Design

Analyze Solutions

Develop New Technology (Optional)

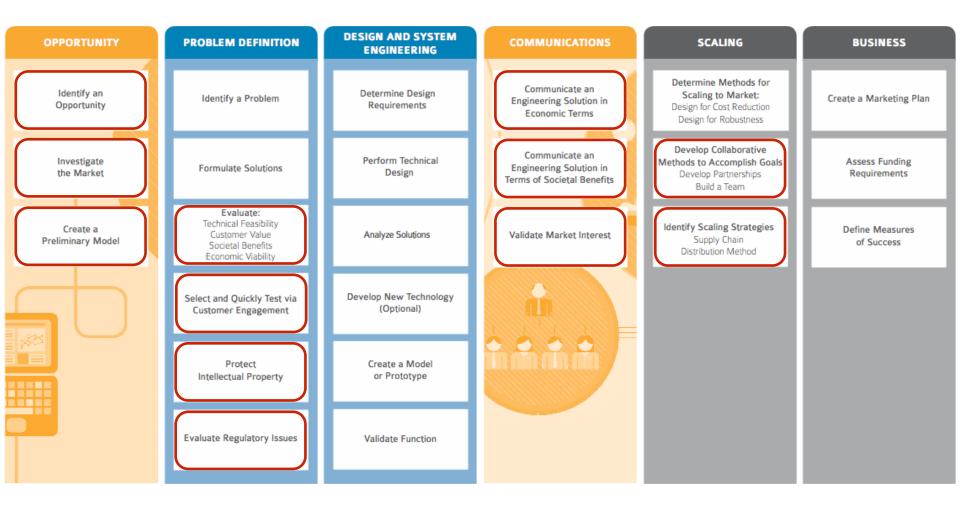
> Create a Model or Prototype

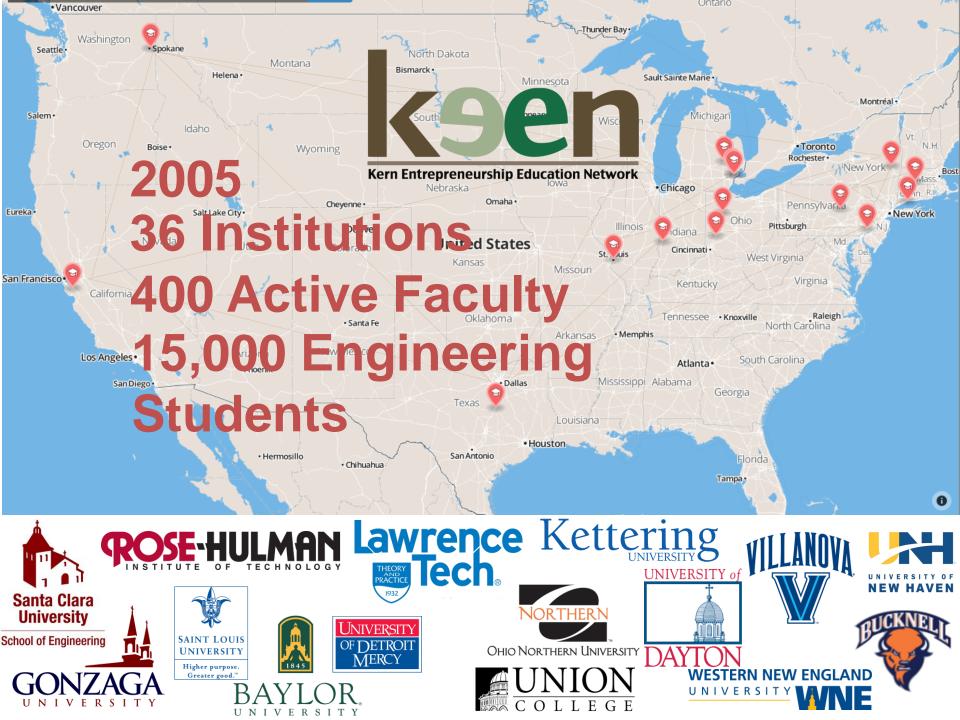
Validate Function

PROBLEM DEFINITION	DESIGN AND SYSTEM ENGINEERING	
Identify a Problem	Determine Design Requirements	
Formulate Solutions	Perform Technical Design	
Evaluate: Technical Feasibility Customer Value Societal Benefits Economic Viability	Analyze Solutions	
Select and Quickly Test via Customer Engagement	Develop New Technology (Optional)	
Protect Intellectual Property	Create a Model or Prototype	
Evaluate Regulatory Issues	Validate Function	

OPPORTUNITY	PROBLEM DEFINITION	DESIGN AND SYSTEM ENGINEERING	COMMUNICATIONS
Identify an Opportunity	Identify a Problem	Determine Design Requirements	Communicate an Engineering Solution in Economic Terms
Investigate the Market	Formulate Solutions	Perform Technical Design	Communicate an Engineering Solution in Terms of Societal Benefits
Create a Preliminary Model	Evaluate: Technical Feasibility Customer Value Societal Benefits Economic Viability	Analyze Solutions	Validate Market Interest
	Select and Quickly Test via Customer Engagement	Develop New Technology (Optional)	
	Protect Intellectual Property	Create a Model or Prototype	
	Evaluate Regulatory Issues	Validate Function	

Redefining Engineering as Creating Value





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AUDIENCE-AWARE ASSESSMENTS REDUCE PAIN AND INFLAMMATION

EPICENTER research summit

Thank you!





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