



# **Engineering Education 20.20**

**Khanjan Mehta**  
**Vice Provost for Creative Inquiry**









# Skillsets

## in 2020

---

1. Complex Problem Solving
2. Critical Thinking
3. Creativity
4. People Management
5. Coordinating with Others
6. Emotional Intelligence
7. Judgment and Decision Making
8. Service Orientation
9. Negotiation
10. Cognitive Flexibility

## in 2015

---

1. Complex Problem Solving
2. Coordinating with Others
3. People Management
4. Critical Thinking
5. Negotiation
6. Quality Control
7. Service Orientation
8. Judgment and Decision Making
9. Active Listening
10. Creativity



# Mindsets



Skillset



Mindset



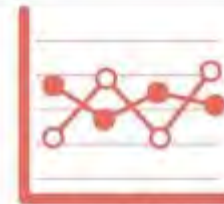
Problem Solving



Quantitative  
Approach



Evidence-Based  
Approach



Data-Driven  
Approach

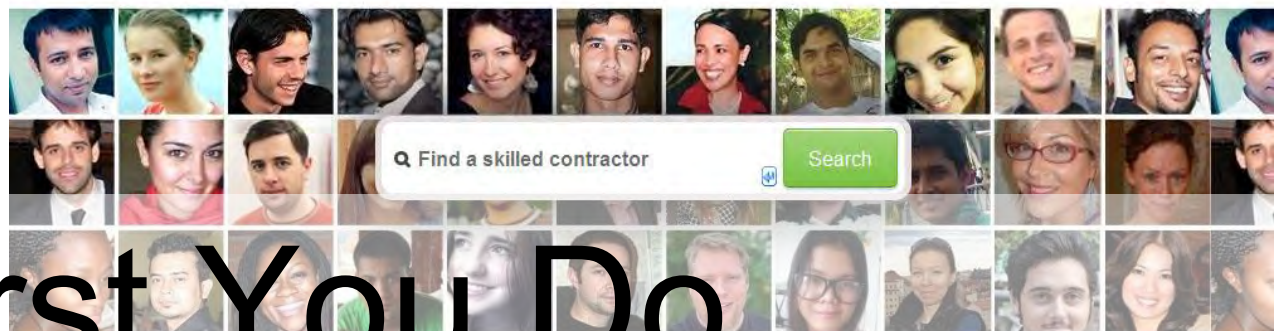
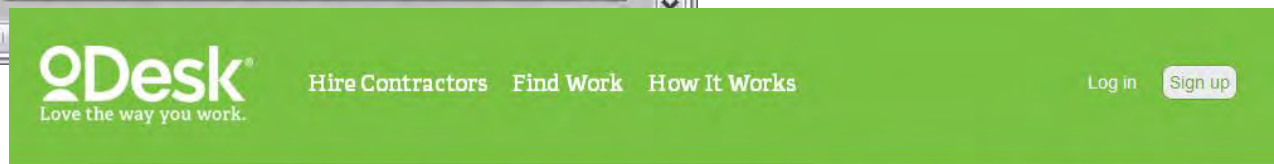
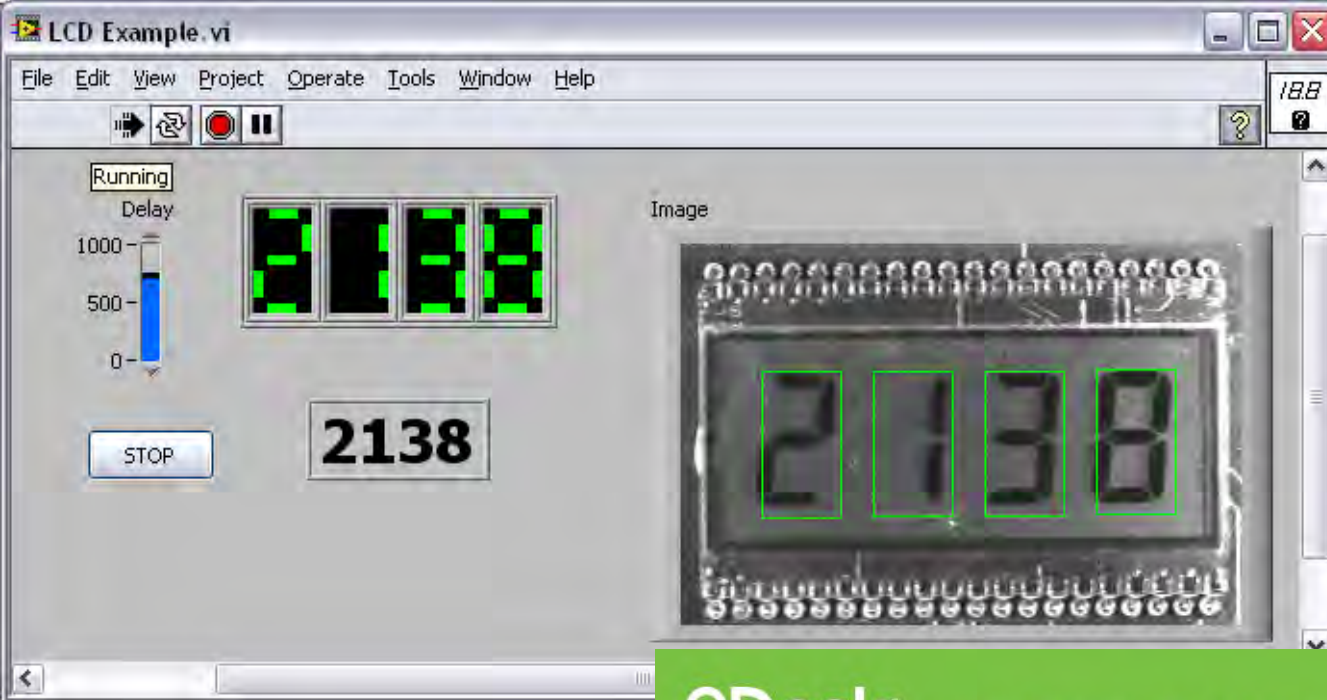


Systems  
Approach



# Portfolios





First You Do  
Then You Learn

Get the right contractor. Get the job done.

Post a job. It's free.

Find a job.

Explore top contractors

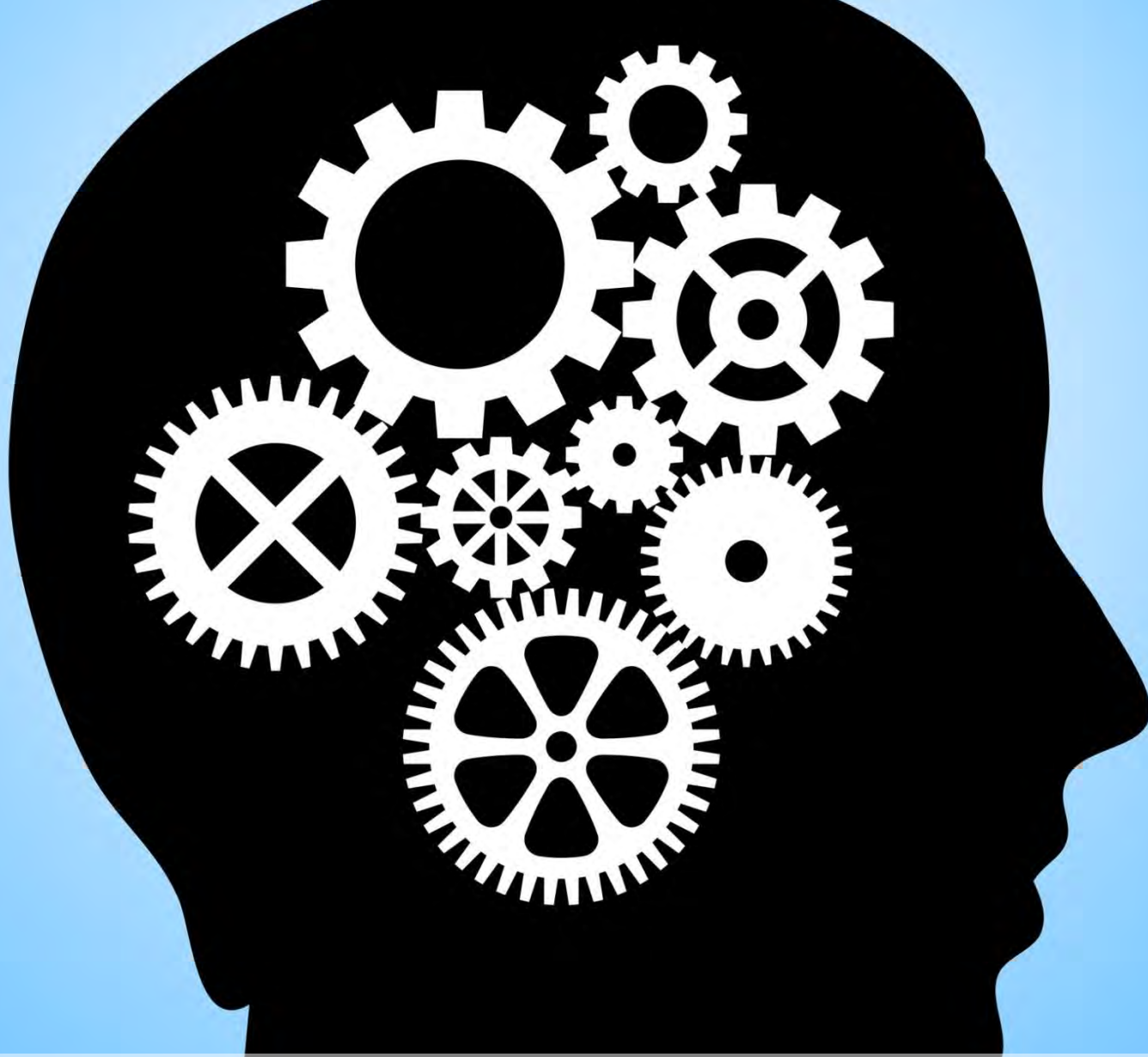
We are the world's largest and fastest







Pedagogy Trumps  
Technology, Spaces



Inquiry to Impact To olkit







Real, Meaningful,  
Purposeful Projects





Infinite Challenges  
And Learning Moments





**~~Life-Changing Experience~~**





**KEEP  
CALM  
AND  
WRITE THE  
TERM PAPER**

# GRO Greenhouses



**PennState**  
College of Engineering

**HUMANITARIAN ENGINEERING  
AND SOCIAL ENTREPRENEURSHIP**



Improving Livelihoods and Fostering Food Security

**Experiences → Impacts**





**Empathy**



**Communication**



**Multiple  
Languages**



**Global Quotient**



**Contextual  
Understanding**



**Resilience**



**Teamwork Skills**



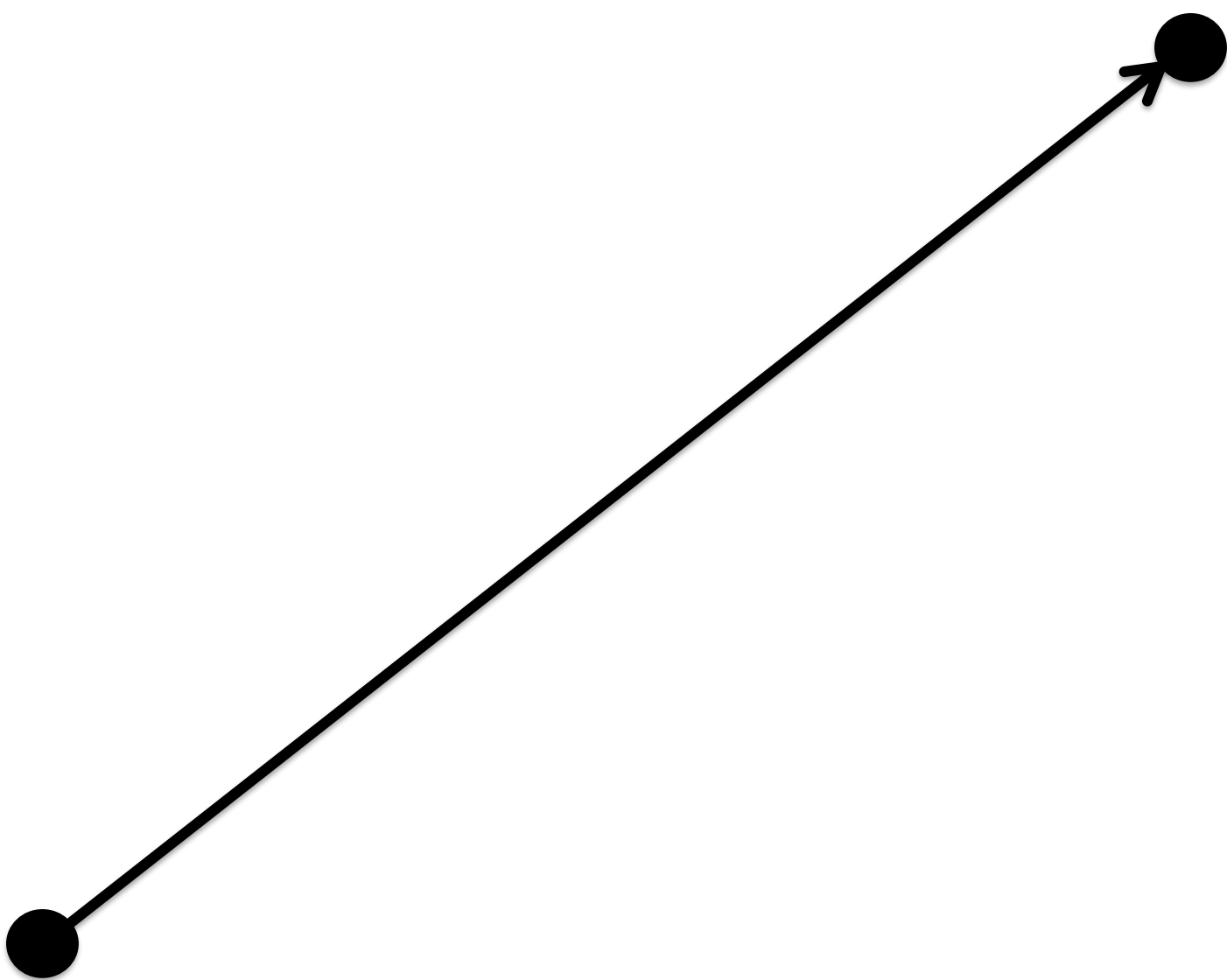
**Entrepreneurial  
Mindset**



**Ethical  
Decision-Making**

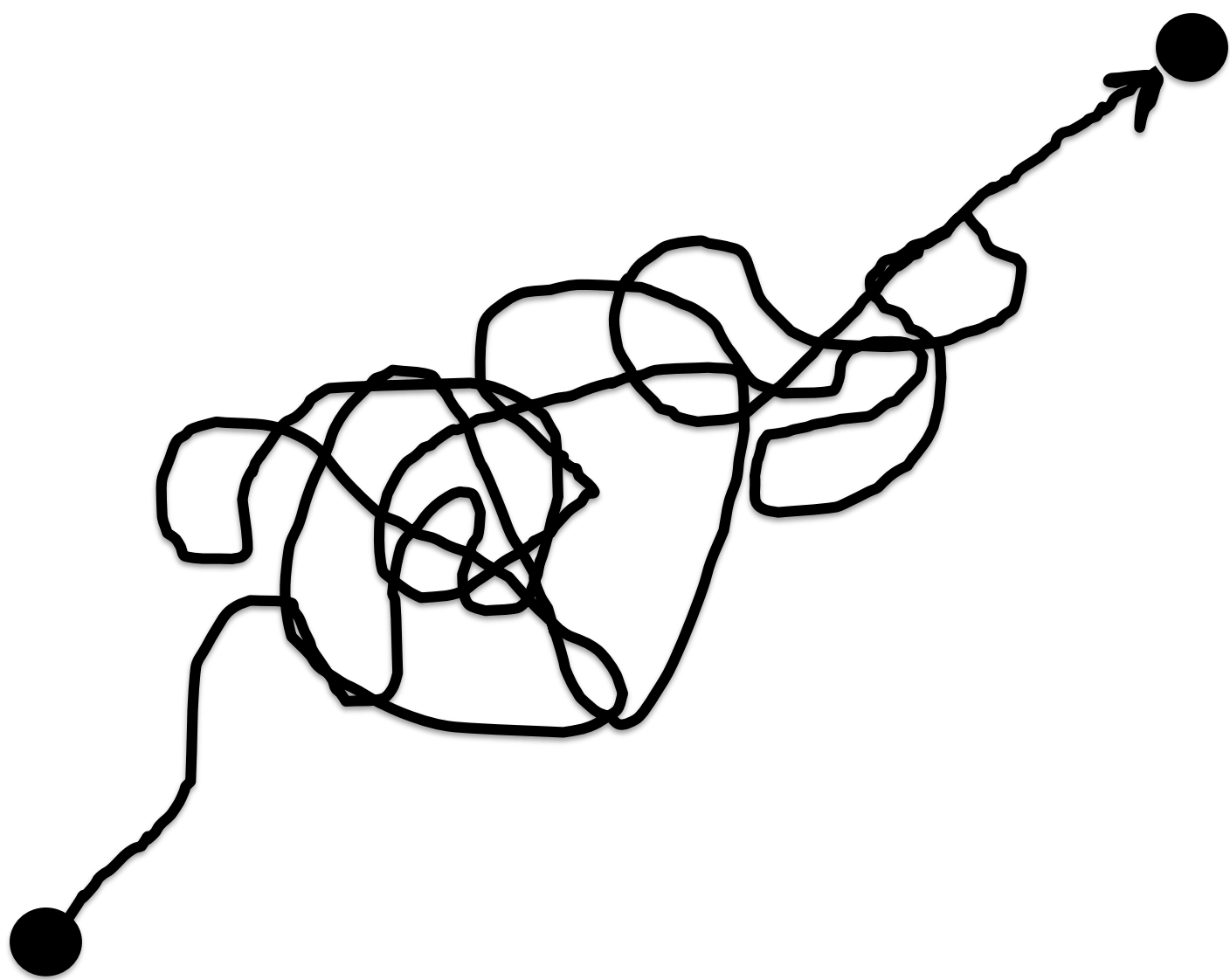


**Work Experience**



Ideation → Execution





Ideation → Execution

