

# *Broadskilling* To Prepare Students for Future Work

RICHARD BUSBY ILLINOIS ACTE ANNUAL CONFERENCE FEBRUARY 13-14, 2020





- Introduction/Background
- The Challenge
- The Broadskilling Framework
- Open Chat Learn from crowdsourcing



# Introduction/background

## Education

Management



Corporate Training



### **Interests**

- Executive Learning Exchange
- ACTE/iACTE
- Student Advocate Role
- Writing/Presenting
- Continuous Learner

Instructional Design



Baseline: 1GC, Rural, DIY expectation





**Richard Busby** 

Richard has a passion to prepare youth for the challenges of future work. His experience with both corporate Talent Development and Education management give him a unique perspective on the early talent development pipeline.



### UPSKILLING, RESKILLING AND LEARNING AGILITY

10-01-2019

#### October 31, 2019

## Future of Work Learning Circle: Automation, will a robot take my job?

### Posted in:Future of Work

Session Focus: Teri is interested in talking about upskilling and reskilling, learning agility, and how companies will evolve learning in the age of automation. Bring your thoughts, ideas, examples as we frame up what upskilling and reskilling means and what the implications for L&D.



#### October 17, 2019 Preparing Students for Future Work Posted in:Future of Work

Building on previous discussions by focusing on the systems and challenges of preparing youth to be successful in the future of work. We will move from conceptual research to pragmatic experience by sharing what has been shown to work. How do we scale up what works?



#### October 4, 2018

Co-design Apprenticeships & Future Workforce Pathways: Corp HR & University Partnerships

### Posted in:Integrated Talent Management

We will discuss the untapped opportunities within tuition assistance programs and how to align training and tuition assistance programs to build leadership pipelines about their personal experiences and are least likely to center on experiential learning.



#### October 6, 2018

Building strong pipeline: Let's look at Illinois' #1 High School Talent Pool

### Posted in:Future of Work

Hear how IMSA has and is taking bold steps to foster the discoverers, thinkers, innovators and experimenters needed to develop the Talent needed for the future of work





- Few students have a career plan (and if so... it is often vague)
- HR Executives tell me student applicants are not prepared ...(who feels the heat?)
- Apprenticeship director story about student gaps, perceptions, and costs of remediation





# www.Broadskilling.com

https://broadskilling.com

••• 🗵 🏠 🔍 Search

Does your student have a plan?

Broadskilling Education 2572 Collins Road Oswego, IL 60543 US

## Broadskilling

Preparing students for future work



Starting your student's journey to lifelong learning!



# What is the problem?... The Future is bright! (right?)



agricultural society towards the industrial society provides the most pertinent

illustration of the profound implications which the full diffusion of new technologies can have on family structures, work relations, settlement patterns, economic and

/oecdobserver.org/news/archivestory.php/aid/48/21st-AOcentury-technologies:-a-future-of-promise.html



# Or is there a downside: Will Al automate my job?



May 31, 2019 Mary Gray COURTESY OF HOUGHTON MIFFLIN HARCOURT

by Karen Hao

# **60%**

of job growth by 2030 could be concentrated in 25 cities and their peripheries

Potential workforce displacement in midpoint adoption scenario, 2017-30

14.7M 11.5M 11.9M

Young workers age 18-34

McKinsey Global Institute



Workers over age 50

Hispanics and African Americans



>15 10-15 5-10 0-5 <0

Net growth, %

Source: McKinsey Global Institute analysis



# Isn't automation going to reduce human labor and make life easier?





# The answer?... **maybe** (Our best people are working on it)

"Last year, after throwing in the towel and replacing robots with humans at his controversial factory in Fremont, CA, Elon Musk tweeted that "excessive automation at Tesla was a mistake....**Humans are underrated**." Austin Weber, **Lights-Out Automation**: Fact or Fiction? Assembly Magazine. May 9, 2019

# Future Work: It is a technical economy

Digital Transformation Big Data Cloud Architectures Artificial Intelligence Robotics Machine Learning

Data Science Agile management Contracted Workforce AR/VR Advanced Automation ...what's next????



# Concurrently, there is a loss of experienced workers

74 Million Baby boom workforce

- 41 Million Boomers still working
- 10,000 Boomers turning 65 daily
- 20 percent % of population 65 or older by 2030

1.6M Teacher retirements: 2011-2021



# Skill Gap Impact: An Illinois Apprenticeship Story

## Context: Entry Skills for 4 Year Apprenticeship

	<u>l Need</u>	<u>I Have</u>
Apprentices	150	55
Math Skills	Algebra 1	A Class in Year 1
Soft Skills	Work Ready	To Teach This
Experiences	Tools & Uses	To Teach This
Science	Fluid Dynamics	To Teach This

# HR Perspectives: Student Gaps

- Lack of self -confidence in students is a significant barrier in prepping students for jobs
- Completing a degree with a few internships is not enough
- Students need to be able to articulate relevant experience & impact created, on resume and LinkedIn profile



# HR Perspectives: Evidence of Skillset

- Students need to create more evidence of skill.
- Volunteering experience, teaching, free lance work shows passion and evidence of skill
- Employers want to see work samples especially for coding, on platforms like <u>GitHub</u> to demonstrate their work.

- Schools should be thinking of partnerships with companies that offer student work experiences (hackathons, Internships)
- School assignments should be aligned with real world work.
- Schools should ask "Are their opportunities to engage corporate partners to collaborate on creating relevant school assignments that would prepare students for 21st century jobs?"

# What's been your experience with business partnerships?

### Forbes

142,127 views | Nov 29, 2018, 10:53am

### Businesses Should Be Leaders In Training Workers sci



Ramona Schindelheim Brand Contributor Grads of Life BRANDVOICE | Pald Program Leadership

### School-Business Partnerships That Work: Success Stories from Schools of All Sizes

### **BUSINESSES EYE THE WORKFORCE OF THE FUTURE**

In Reseda, California, principal Allan Weiner makes a conscious effort to get businesses involved at Cleveland High School. "We have partnerships with Boeing, Wolfgang Puck, Sony, and others," he reported.

"Most business people want to get involved because high school students are their future workforce," Weiner told Education World. To that end, Weiner and his staff have worked to develop a number of programs that aim to interest students in those companies' jobs,

https://www.educationworld.com/



# 60% without College

#1

## Educational Attainment

Highest level of education among people aged 25 years and older. Scope: population of the United States

United States



https://statisticalatlas.com/United-States/Educational-Attainment

# But Workforce Skill Gaps: Are not new

## WORLD PREMIERE AND ROYAL FILM PERFORMANCE RED CARPET COVERAGE STARTS AT 6PM GMT / 1PM ET / 10AM PST





# Skill Gaps: Nothing New

### **Conventional Skills**

**Bayonet Charges** 

Cavalry

Infantry

**Fortified Locations** 

Shipping

### Challenged by Emergent Technology

Automatic Weapons

Tanks

**Chemical Warfare** 

Airplanes

Submarines



# Is education preparing (enough skilled) students for future work?

### OF RESPONDENTS SAY EDUCATION SYSTEMS HAVE DONE LITTLE OR NOTHING TO HELP ADDRESS THE SKILLS SHORTAGE ISSUE.

More work needs to be done by organizations and education systems to ensure that the U.S. workforce is prepared for the future of work.

Source: SHRM Research findings in "The Skills Gap 2019"

BROADSKILLING



### Addressing the Skills Gap by Identifying, Developing, and Rewarding Lifelong Learners

### TODAY, at 2 p.m. EST

September 18, 2019 EDUCATION WEEK

### SCHOOLS & THE FUTURE OF WORK

### The Future of Work Is Uncertain, Schools Should Worry Now

Source: Education Week. September 18, 2019

Businesses and educators today need to invest in workforce learning and development in order to stay relevant and prepared for a rapidly changing economy. Employers need to work with education institutions to recruit, develop, and retain lifelong learners who have the capacity and desire to upskill and reskill over the course of their careers.

2/11/2020 CLO Magazine/D2L Webinar

LOGIN

### Com



# HR Perspectives: What are employers looking for in students?

- Market relevant knowledge and skills
- Know my industry (be willing to learn)
- Ability to function in the gig economy
- Strong self awareness & soft skills (Success skills/Power Skills)
- Expectations that "Learning to Learn" has no "end point"
- Befriending technology
- Evidence of ability to do work



# Forward Looking: A Point of View

Dimension	Content
<b>1.</b>	Cloud Architecture, IaaS, PaaS, SaaS,
Technology	Security
<b>2.</b>	Artificial Intelligence, Machine
Automation	Learning, Robotics
<b>3.</b>	Gigs, Skills-Based, International Supply
New Models of Work	Chain
<b>4.</b> Change	Pace, Threats, Shifts in Practice

Recommended Reading: McKinsey Global Institute: The Future of Work in America. July 2019

Insight

# Future Work: Content changes rapidly...

High	<ul> <li>Whitepaper</li> <li>Conference</li> <li>Role Based Simulation</li> <li>Mentor</li> <li>Certification</li> <li>?</li> </ul>	<ul> <li>Expert Network</li> <li>Focused Workshops</li> <li>On-the-Job Feedback</li> <li>Al Augmentation</li> <li>?</li> </ul>	
Complexity	<ul> <li>Course/Classroom</li> <li>Online Course</li> <li>Podcasts</li> <li>Books/Audio Books</li> <li>BLS Website</li> </ul>	<ul> <li><u>Cloud Technologies</u></li> <li><u>Artificial Intelligence</u></li> <li><u>Gig Economy</u></li> <li><u>Pace of Work</u></li> <li>Social Media/Follow:</li> <li>Heather McGowan</li> <li>Jacob Morgan</li> </ul>	
Low Pace of Content Change High			

Insight

# Inward Looking

## What does it mean to be relevant?

"Do you know what an EC2 Instance is?" ITS Manager

ME

Dimension	Content
<b>1.</b>	Communication, Collaboration,
Soft Skills+	Feedback
<b>2.</b>	Personal Assistants, Tools, Following
Befriending Technology	Emerging Tech
<b>3.</b>	Project Management, Marketing,
Entrepreneurial	Budget
<b>4.</b>	Adaptability, A learning plan,
Lifelong Learning	Networking

You can be really hot one minute, the next minute be unemployed. Lane Kiffin, Coach, University of Mississippi

Recommended Reading: Cary J. Green, PhD., Leadership And Soft Skills For Students"



# Resource Examples: Plan to Be Relevant

READING

### RESOURCES

- <u>Success Skills: For High School,</u> <u>College and Career</u>
- ACTE <u>Career Clusters</u>
- Gig Economy Statistics (2019)
- Internship vs Apprenticeships

- Cloud Training/Certifications:
  - Microsoft <u>Azure</u>
  - AWS Training
  - Google Cloud Platform <u>Essentials</u>
- Career Information:
  - CareerOneStop
  - <u>O-Net</u>
  - Occupational Outlook Handbook
- www.Broadskilling.com



## **Outward Facing** Where is the evidence of your skillset?

Dimension	Content
1.	Network profile, Presence,
Social Media Presence	Website, Media, Podcast, Video
<b>2.</b>	Portfolio, Apps, Published Work,
Work Samples	Deliverables
<b>3.</b>	Apprenticeship, Volunteer Work,
References	Internship, References
<b>4.</b> Certified Skills	Micro-Credentials, Certified Skills

Recommended Reading: Cary J. Green, PhD., Leadership And Soft Skills For Students"



# Resource Examples: Evidence of Skill

### READING

### RESOURCES

- <u>Overlooked Value of Certificates</u> and Associates Degrees
- What Employees Want to See on Student Resumes
- High School Resume Examples (2020)
- Business Ideas for Teens

- Web Portfolio of H.S. Student Work -<u>IMSA</u>
- Hackathon Platforms: <u>Agorize</u>, or <u>DevPost</u> – participate in, or host a hackathon
- <u>GitHub Education</u> Tech education resources for students and teachers
- <u>60x25.org</u> (e.g. High School Internship Resources on ioer.ilsharedlearning.org)



# Evidence: Student Work Portfolio



🔎 Richard Busby 🌘 😑

2

Illinois Math and Science Academy Student Portfolios



### Selected Works of Shruti Shakthivel

Student, class of 2020

I researched the pathological interaction between Alzheimer's Disease and osteoporosis. I discovered a possible link between the two diseases. I presented my project at multiple symposiums, most notably, the 2019 International Student Science Fair in Singapore. Currently researching bone formation pathologies and how phosphate levels and bone mineralization are controlled by FGF23 protein levels.



+ Follow

III Works About

#### Positions

April 2019 - Present	2019 - Present Project Leader, Illinois Math and Science Academy - Independent Research/IMSA Student Research	
January 2018 - Present	President, Illinois Math and Science Academy - ELEMENT (Equipping Learning Entrepreneurs through Mentorship)	
September 2017 - Present	President, Illinois Math and Science Academy - IMSA Student Productions (ISP)	
January 2018 - July 2018	Student Organizer, ISP Team Leader, Illinois Math and Science Academy - International Student Science Fair (ISSE) 2018	

### https://digitalcommons.imsa.edu/student\_works/

# Sample: Student Portfolio

### **Application Development Example: GitHub**

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# Time to Crowdsource

How well is education preparing youth for future work?

- What's not happening that should?
- What's happening that should not?
- Do your students know what they want to do?
- Do your students have a plan.
- Are they/should they, be aware of any of the items listed?
- What about students with a specific interest how do you direct them? Electrician? Construction? Engineer? Manager? Aviation Tech?
- •What skills are relevant?
- How can they display their job-readiness skills?






College?	Occupational Training?	Certificates?	Direct to Work?
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## It's not always a route to college

"A vast majority of our policies, and most of our departments and agencies, are targeted toward coaxing people toward a four-year degree... There are incredible opportunities for Americans to live and work and do fantastic jobs that don't require four-year degrees...."

Michael Kratsios, Chief Technology Officer of the United States



K-12 – The Early Talent Developing Pipeline



## Educators have a narrow window of opportunity



#### Average Lifespan

## What can students do to BROADSKILLING prepare for future work? Future **Future** Skills Skills **Near Future** Skills

#### Activity : Open Inquiry Research Project

#### Inputs

#### **Guiding Question**

What forces and trends are shaping the future of work? What skills do I need to succeed in future work? What can I develop relevant skills? What are my aptitudes and interests?

#### Activity

Write a position paper describing the answers you defines, your plan to prepare yourself for a successful like and work?

#### Output

An informed perspective on the future of work. A self development plan to prepare for success in future work.

### Activity : Guided Inquiry Research Project

Output

#### Inputs

•	Job Landscape: • Career Clusters • Occupational Outlook website • Industry Verticals Emerging Technologies: AI, Robotics, Cloud Computing, [insert other] Research Template	<ul> <li>Write a position paper describing a personal Broadskilling plan</li> <li>1. Select a technology, an Industry &amp; a role of interest.</li> <li>2. Research the impact of technology</li> <li>3. Identify skills required</li> <li>4. Define skill development pathways</li> </ul>	<ul> <li>A Plan to be relevant to future work:</li> <li>Perspective about future work</li> <li>A Point of view about relevant skills</li> <li>Pathways to develop relevant skills</li> <li>Tradeoffs (college, trades, certs, OJT)</li> <li>Methods to demonstrate evidence of skill.</li> </ul>
•	Inventories: Myers-Briggs, Big 5, ASVAB	5. Identify interests & aptitudes	Awareness of aptitudes & career interest

Activity

### In School Strategy: Student Inquiry Research

Do a walkthrough/talk through of the guided inquiry research project (if student access to internet or devices to do research is limited)

- 1. Given the Broadskilling Model and a Research Plan
- 2. Guided Inquiry: Students will define the scope of their research to:
  - A. Broad Scope: Research Future Work, Forces and Trends
  - B. Narrow Scope/Student Driven: Student selects one or more of the field of the select selects one or



#### Broadskilling: The Framework is meant to be tailored

**Complexity** (Progression: Grade, Age, Complexity)



#### **Student Interest Driven**

#### Some: Out-of-School Solutions – local HS internships

High School Internships – Chicago

- https://www.internships.com/chicago-il
- Gensler High School Architecture Internship: Illinois
- IBM AI Internships: Illinois
- NASA Summer Internships:
- National Institute of Health (NIH)Summer Internships:
- National Cancer Institute:
- Minnesota Trades Academy Summer Internship:

#### Example: School/Corporate System: The Beechwood EDGE Program



TOP STORIES LOCAL NEWS CRIME BUSINESS PRESERVATION LIFESTYLE SPORTS

THE RIGHT CARE. RIGHT HERE.

HOME / EDUCATION

BROADSKILLING





OPINION Q

ENTERTAINMENT

Bellevue: Burger King, Gas Station, Waffle House Move Forward

LOCAL NEWS, BELLEVUE

Learn More

#### Beechwood Launches New EDGE Program to Put Students on Career Path

https://www.rcnky.com/articles/2019/10/27/beechwood-launches-new-edge-program-put-students-career-path

#### Thank you for engaging.

Richard Busby, M.S.

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Richard@broadskilling.com

## Appendix

#### RELATED SLIDES

### Cloud Architecture

- Recommended Reading: McKinsey Global Institute: The Future of Work in America. July 2019
- Definitions:
  - IaaS: cloud-based services, pay-as-you-go for services such as storage, networking, and virtualization (AWS EC2, Google Compute Engine (GCE))
  - PaaS: hardware and software tools available over the internet (e.g. AWS Elastic Beanstalk, Windows Azure, Force.com)
  - SaaS: software that's available via a third-party over the internet (e.g. Salesforce, Google Apps, Dropbox, Mailchimp, Slack)
- What's **NOT** Cloud: On-premise ("On Prem"): Software that's installed in the same building as your business (Onsite management across the enterprise architecture

https://www.bigcommerce.com/blog/saas-vs-paas-vs-iaas/#the-three-types-of-cloud-computing-service-models-explained



### Artificial Intelligence and Machine Learning

AI and ML

<u>Artificial intelligence</u> (AI) is the field of computer science that seeks to enable machines to perform tasks <u>associated with the human brain</u>, such as <u>cognition</u>, learning, and problem-solving.

Machine Learning: computer systems are able to perform tasks without explicit hard-coding of instructions. Made possible with AI due to advances in pattern-recognition capabilities of deep learning, a type of machine learning whose deep <u>neural</u> network architecture is somewhat inspired by the biological <u>brain</u>.

Resource: <u>https://www.psychologytoday.com/us/blog/the-future-brain/201907/ai-and-machine-learning-explained-simply</u>

The artificial-intelligence industry runs on the invisible labor of humans working in isolated and often terrible conditions—and the model is spreading...

Karen Hao, artificial intelligence reporter for MIT Technology Review



### New Models of Work

Traditional Work was: Education, Profession, Progression, Rewards (Financial & Psychological); New Model of Work: Skills, Roles, Lateral/Vertical Responsibilities, DIY Rewards

#### **Changes**

Pace of Change: Moore's Law (now being questioned)... Computing Power Doubles every 2 Years (there is an upper limit – the closer nano-size particles get to "atom", the harder it gets (Latest trends: 3-D computing, Quantum Computing, distance – working on Wetware/DNA computing)

Human Impacts: Brings uncertainty

- Expectations of Accessibility: Can I "Turn Off" when I have personal devices and an expectation of accessibility. Implication: Tradeoffs between money life units (Financial, Psychological, Well-Being)

- Identity: I am a [Job Title] for [Company Name] could be replaced with "I am a [role title] on a [#] Month project for [Company Name].
- Routine vs Constant. Implication: re-evaluation of your position
- Competency: The next thing is coming, and fast, Implication = Relearning

Resource: <u>https://www2.deloitte.com/us/en/insights/deloitte-review/issue-21/changing-nature-of-careers-in-21st-century.html</u>

### Lifelong Learning

	Life Experience		Formal Education	
Broadskilling	Career/OJT	Certifi	cations	Post- Secondary
Fernand Vision Fernand Lasting Detward Facing Detward Facing	Self-Develop	oment Educ		cation System

BROADSKILLING

**Opportunity/Environment** 



### Learning Strategies for Broadskilling

...we call for teaching approaches that encourage individuals to develop a range of both technical and innately human skills....We advocate a greater commitment to experience-based skills development, like on-the-job learning and apprenticeships.

Pierre Nanterme, Former Chairman & CEO of Accenture (Retired 2019)



#### **Educational Attainment**

#### **Detailed Educational Attainment**

#2

Highest level of education among people aged 25 years and older. Scope: population of the United States



United States

Count number of people in category <sup>1</sup> Degree <sup>2</sup> Diploma or equivialent

<sup>2</sup> Diploma or equivialent <sup>3</sup> H.S. = High School

https://statisticalatlas.com/United-States/Educational-Attainment

### STEM Defined

Science, Technology, Engineering and Mathematics (STEM) programs of study are:

- 1. Mathematics and statistics
- 2. Science technologies/technicians
- 3. Physical sciences
- 4. Biological and biomedical sciences
- 5. Agricultural sciences
- 6. Engineering
- 7. Engineering technologies
- 8. Computer and information sciences

#### How AI will impact K-12 teachers. KcKinsey & Company, Jan 2020

#### Technology can help teachers reallocate 20 to 30 percent of their time toward activities that support student learning.



<sup>1</sup>Figures may not sum, because of rounding. Average for respondents in Canada, Singapore, United Kingdom, and United States. <sup>2</sup>Includes a small "other" category.

Source: McKinsey Global Teacher and Student Survey

McKinsey & Company

https://www.mckinsey.com/industries/social-sector/our-insights/how-artificial-intelligence-will-impact-k-12-teachers

#### **Experiences Advising Students**

#### High School Student

Sue is a 16-year-old sophomore at Oswego East High School. She excels in science and mathematics. She is starting to think more about a career, specifically "Genetic Counseling"

> 3. Build & Display Evidence

### 1. Aware of Forces and Trends

BROADSKILLING

2. Plan to be Relevant

#### Questions

- What is the role of schools? Out of school entities?
- What are kids responsible for on their own?
- What digital resources are vital for success?
- What is the future of K-12? What about Post secondary?
- Certification pathways?

### What is your perspective?

- What is working/not working in preparation of students?
- Where are you seeing gaps?
- What experiences do students need to develop the skills needed?
- What in-school experiences seem to work?
- What out of school experiences seem promising?
- Are businesses interested in identifying talent before college graduation? If so, how?
- Are you aware of promising solutions?
- Is it a matter of scaling up working solutions? Disrupting the preparation pipeline? Both?



Learner choose at least 2 of the following list:

- A Role (programmer)
- Industry (Manufacturing)
- Technology (robotics) or Concept (gig economy)



#### Reading List

Accenture: The Future of Education blog series:

- Realising the Value of Learning
- Truly Human Learning
- New Models of Work and Learning

## Instructional Design: Mode of delivery is based on complexity and change

High Content	<ul> <li>Whitepaper</li> <li>Conference</li> <li>Role Based Simulation</li> <li>Mentor</li> <li>Certification</li> <li>?</li> </ul>	<ul> <li>Expert Network</li> <li>Focused Workshops</li> <li>On-the-Job Feedback</li> <li>Al Augmentation</li> <li>?</li> </ul>					
Complexity	<ul> <li>Course/Classroom</li> <li>Online Course</li> <li>Podcasts</li> <li>Books/Audio Books</li> <li>?</li> </ul>	<ul> <li>Social Media</li> <li>Podcasts (follow)</li> <li>Website</li> <li>Newsfeeds</li> <li>Collegial Network</li> <li>?</li> </ul>					
Low Pace of Content Change							