

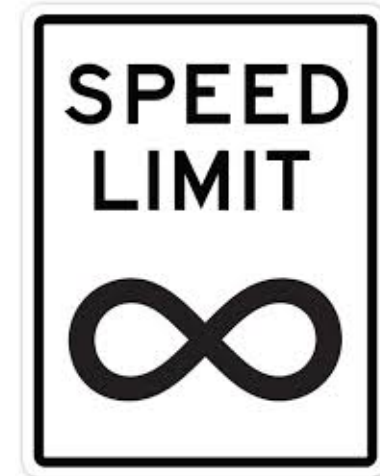
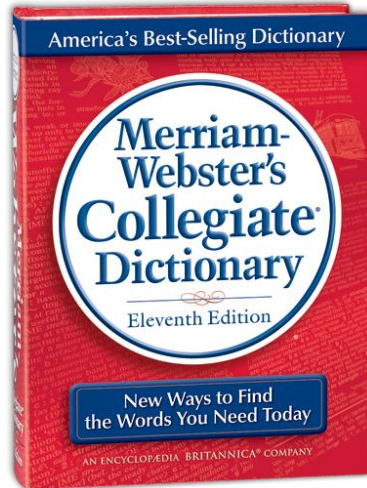


PMINJ Chapter
November 17th Monthly Program 2015

Becoming a Digital Project Manager

George Pace
Keep Pace Technology

Quick Survey – What do you know about “Digital”?



Forrester Research

Predicts all companies will become either digital predators or digital prey by 2020

That is FOUR Years away

<https://www.forrester.com/Digital+Predator+Or+Digital+Prey/fulltext/-/E-res120921>

Radio Shack®

AMERICA'S TECHNOLOGY STORE™

PRESIDENTS' BIRTHDAY SALE!

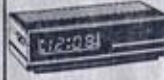
DON'T DELAY!



All-Weather Stereo

Cut 34% **1188**
Reg. 17.95

Realistic STEREO-MATE® AM/FM personal receiver shrugs off sand, water, rust and moisture. See Sale 1/18/91



AM/FM Clock Radio

30% OFF **1388**
Reg. 19.95

Chronomatic™ 261 clock radio's compact size cuts nightstand clutter. #3-1048 See Sale 1/18/91



In-Ear Stereo Phones

HALF PRICE! **788**
Reg. 15.95

Realistic® in-ear phones weigh just 0.6 ounce! With carry pouch. #33-977 See Sale 1/18/91



Micro-Thin™ Calculator

39% OFF **488**
Reg. 7.95

Radio Shack EC-413 is almost the size of a credit card! Solar powered. #46-919 See Sale 1/18/91

3-DAY SPECIALS ABOVE GOOD SATURDAY THRU MONDAY ONLY!

0% INTEREST!
NO PAYMENTS UNTIL MAY!
NO DOWN PAYMENT!

HURRY! OFFER ENDS TUESDAY FEBRUARY 19

COME IN AND TAKE ADVANTAGE OF THESE OTHER FANTASTIC VALUES!

INTRODUCTORY SPECIAL!



Save \$670
\$1599

- 286-Based PC Compatible
- Color Monitor
- 20MB SmartDrive™ Hard Drive
- Easy-to-Use 10-in-1 DeskMate® Software

BONUS PACKAGE

- Lotus Spreadsheets For DeskMate
- DeskMate Q&A Write
- Quicken
- 2-Button Mouse



Mobile Cellular Telephone

Save \$100
\$199*

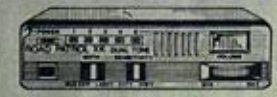
Low As \$19 Per Month - Reg. 299.00



Deluxe Portable CD Player

Save \$40
15995

Low As \$19 Per Month - Reg. 199.95



Tiny Dual-Superhet Radar Detector

Save \$60 **7995** Reg. 129.95

Road Patrol XK™ detector lets you drive with confidence. Separates X and K-band tones. #22-1827



Compact 10-Channel Desktop Scanner

Save \$30 **9995** Reg. 129.95 Low As \$19 Per Month

Realistic PRO-57 lets you catch the news as it happens! Hear police, fire, rail, military, lots more. #32-126



Mobile CB With Channel Controls on Mike

HALF PRICE! **4995** Reg. 99.95

Realistic TRC-430 lets you get highway info or help—you'll never have to drive "alone" again! #21-014



Our Easiest-to-Use Phone Answerer

Cut 17% **4995** Reg. 59.95

DUOFONE™ TAD-241 answerer is ready to use—just plug it in. Has built-in announcement. #43-393



VHS Camcorder

Save \$100 **\$799** Reg. 899.00

Realistic Model 152 includes video light for indoor shooting. 2 1/2 inch battery. VHS accessories. #43-803



3-Way Speaker With Massive 15" Woofer

Save \$110 **14995** Each

Low As \$10 Per Month - Reg. 259.95

Optimus Mach Two® system pumps out bass you can feel. 4" horn tweeter, 5" midrange. #43-022



20-Memory Speed-Dial Phone

Cut 33%
2995 Reg. 44.95

Radio Shack ET-292 Don-Fone® is ideal for home or office. Touch-rotation. #43-087. #43-088. #43-089



Handheld Voice-Actuated Cassette Tape Recorder

40% Off
2995 Reg. 49.95

Realistic CFR-85 makes an excellent "tutor" for students, secretaries or executives. #14-1058

Check Your Phone Book for the Radio Shack Store or Dealer Nearest You

Most Major Credit Cards Welcome

PRICES APPLY AT PARTICIPATING STORES AND DEALERS

All replaced by



Disruption isn't New Digital just happens to be the latest

Layoffs / Job Termination

Company Mergers / Bankruptcy

Government Activity / Regulation

Automation

Global Competition / Outsourcing

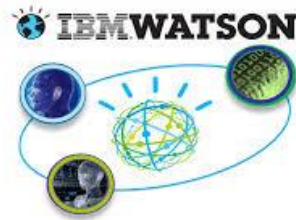
Internet / Online Shopping

Financial Collapse

Millennials in the workplace

And now – numerous disruptive technologies

And more disruption is coming ! In fact, its already here !



KICKSTARTER



2012 TEDx Talk

2 Billion Jobs to disappear by 2030

- Talk was about changes in education, and the prediction was bought up
- Later article goes into detail for these 5 Examples
 - Power Industry
 - Driverless Cars
 - Education
 - 3D Printers
 - Bots
- The reality - Job Disruption is never ending

<http://www.futuristspeaker.com/2012/02/2-billion-jobs-to-disappear-by-2030/>

Defense Mechanisms of Disruption

- Does anyone remember getting guidance on dealing with major disruptions?
 - Change can be tough / Change can be terrifying
- Encouraged “Reactive” Behaviors – Which are just to late
 - Work harder / Longer
 - Get a Certification or more training in that field
- But did you take the time to identify the true “root cause”?
- We are going to start focusing on being PROACTIVE – NOT REACTIVE

Defining Digital Disruption

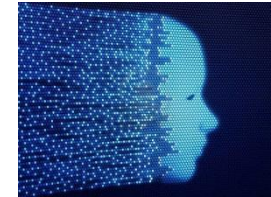
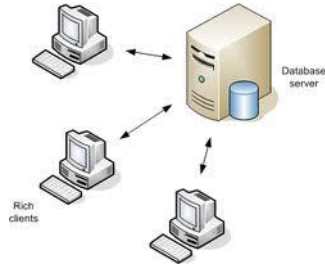
- The changes enabled by digital technologies that occur at a pace and magnitude that:
 - Disrupt established ways of value creation
 - Social interactions
 - Doing business
 - And more generally - our thinking

Source: <https://byresearch.wordpress.com/2013/03/07/digital-disruption/>

Digital Project Management But WHICH “Digital Project” ?



History of managing projects and the gradual “Digital” change



$2 + 2 = 5$



Thinking about Digital Applications

My “5x5” Approach

- Its not the actual numbers – but the reality of On/Off Premise components
- Understand the reality thinking from a “Problem Resolution” perspective
 - What are the expectations of the “User” AND the Business
- Ownership plays a large role
 - What are they responsible for – and what are they NOT responsible for
 - Service problem vs Application problem
- Not all services are created equally
 - There are few if any “industry standards”
 - Each platform needs to be evaluated and determine where the gaps exist

So what to do about it?



Wise Advice – From the “Master”



You must unlearn what you have learned

Unlearning – Step #1

Start with these “New” Rules

- This is the “new normal”
 - Things aren't going to slow down
 - You need to keep you your skills current
- Skills have a marketable lifespan
 - Get from being the “SME” to “Good Enough” Knowledge
 - At a minimum at least keep current with terms / capabilities
- Change as your DIFFERENTIATION
- DISRUPTING your existing routines
 - You have to find time to do this – it isn't an option
- You are in charge of your Career
 - Yes, you really are a Product !!!



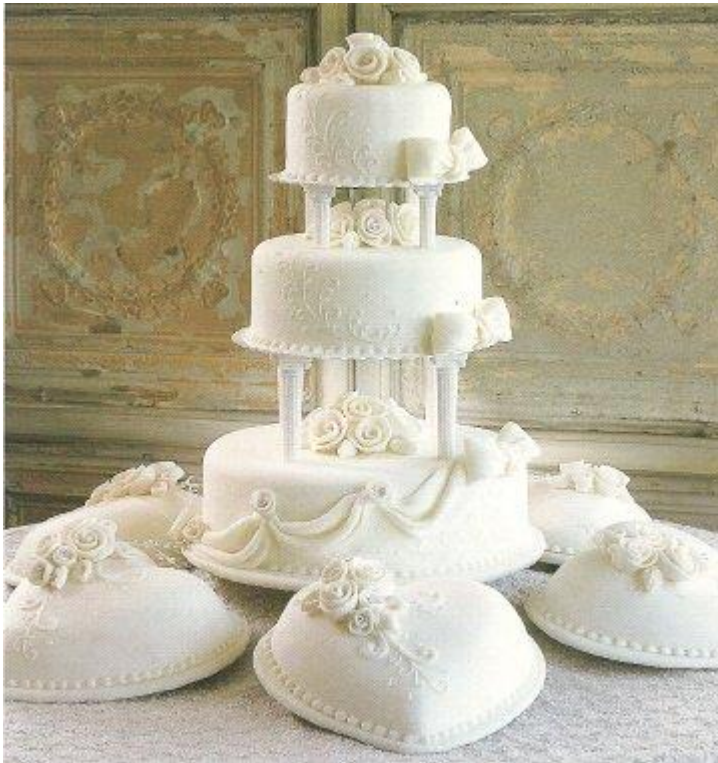
A Reminder - The Rules have changed

In 2015 Uber, the world's largest taxi company owns no vehicles, Facebook the world's most popular media owner creates no content, Alibaba, the most valuable retailer has no inventory and Airbnb the world's largest accommodation provider owns no real estate.

startupvideo.net

Unlearning – Step #2

Skills “Wedding Cake”

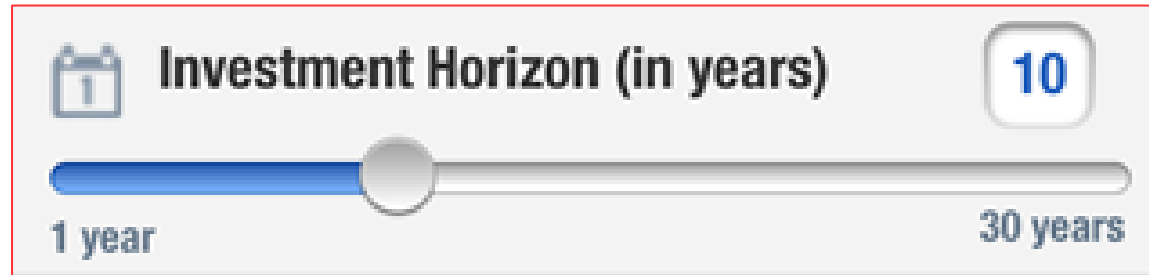


Social Engagement

Platforms / Technologies

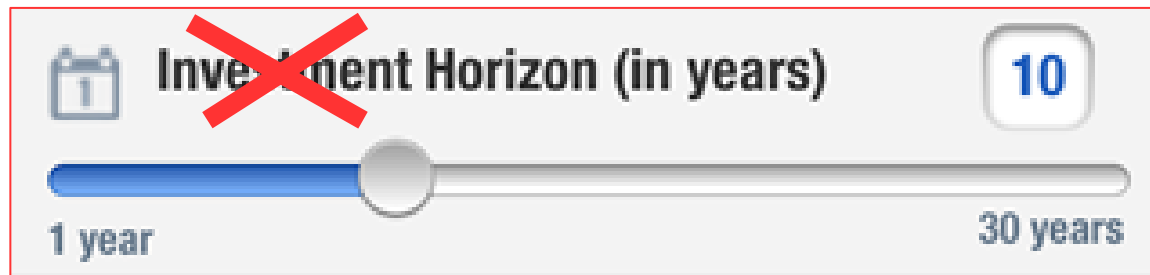
Agile / DevOps

Review: What is an Investment Horizon



Unlearning – Step #3 Establish a CAREER Horizon

Career



Review: Money Compounded over Time

	Savings Account (0.5%)	Money Market Fund (2%)	Certificate of Deposit (5%)	Stock Market (9%)
Initial investment	\$1,200	\$1,200	\$1,200	\$1,200
5 years	\$7,321	\$7,695	\$8,494	\$9,674
10 years	\$13,596	\$14,865	\$17,803	\$22,713
15 years	\$20,030	\$22,782	\$29,684	\$42,775
25 years	\$33,390	\$41,174	\$64,200	\$121,136
30 years	\$40,323	\$51,829	\$88,899	\$194,211
35 years	\$47,432	\$63,593	\$120,423	\$306,646
40 years	\$54,721	\$76,582	\$160,656	\$479,642

Career Horizon Planning Education Compounding

- 3 Credit Class
 - 1 Credit = 1 Class Week x 15 Weeks (50 min x 15 week)
 - 750 Minutes (12.5 Hours)
 - 3 Credits = 3 Classes Week x 15 Weeks (50 x 3 Min x 15 weeks)
 - 2,250 Minutes (37.5 Hours)

- 6 Minutes EVERY Day
 - 2,190 minutes
 - Approximately a 3 credit course

- 10 Minutes EVERY Day
 - 3,650 Minutes (60.83 Hours)
 - Which is almost equivalent to 5 Credits

Even Disruption needs Structure

Mechanical Engineering: BS Sample Curriculum

[Home](#) » [Academics](#) » [Degree Programs](#) » [Mechanical Engineering](#)

Contact the [Mechanical Engineering Department](#) for specific degree requirements corresponding to a particular catalog year. Class sequence may vary depending on specific degree track.

128 semester credit hours are required to complete this degree.

Freshman Year		Credits	Credits
Fall Semester	15	Spring Semester	15
GEEN 1400 Engineering Projects	3	APPM 1360 Calculus for Engineers 2	4
APPM 1350 Calculus for Engineers 1	4	PHYS 1110 General Physics 1	4
MCEN 1024 Chem for Energy & Mat	4	MCEN 1025 Computer-Aided Design	4
CSCI 1320 Intro to Engr Computing	4	Lower-Division HSS Elective*	3
Sophomore Year		Credits	Credits
Fall Semester	16	Spring Semester	16
MCEN 2000 Professionalism Seminar	1	PHYS 2130 General Physics 3	3
APPM 2350 Calculus for Engineers 3	4	APPM 2360 Diff Eq & Linear Algebra	3
PHYS 1120 General Physics 2	4	MCEN 2023 Statics & Structures	4
PHYS 1140 Experimental Physics	1	MCEN 2024 Materials Science	3
Lower-Division HSS Elective*	3	Lower-Division HSS Elective*	3
Free Elective	3		



Assessment Strategy

- GOAL:
 - Assemble a complete, thorough and honest assessment of your “current state”
- Deliverables:
 - Your Personal Strengths / Weakness
 - Your Personal Challenges
 - A defined Career Horizon
- Frequency
 - Depends on where you are at – Quarterly might be a start
- Advice
 - This is going to take time – so don't try to do it in one sitting
 - Don't lie to yourself

Research Strategy

- GOAL:
 - Create an actionable stream of information that provides you insight as to what is coming
- Deliverables:
 - Identifying the number of tools you will need
 - Assemble a list of Technologies that have the potential to disrupt your career
- Frequency
 - Only you can determine, but its about not being overwhelmed
- Advice
 - Luck favors the PREPARED
 - Think about how you can use this to establish yourself as a DIFFERENTIATOR

“Out of the Box” Research

- The Startups
 - <http://www.forbes.com/sites/briansolomon/2014/12/17/the-hottest-startups-of-2014/>
- Top 100 Young Entrepreneurs
 - <https://www.empactshowcase.com/100>
- Venture Capital Investment
 - <http://nvca.org/pressreleases/annual-venture-capital-investment-tops-48-billion-2014-reaching-highest-level-decade-according-moneytree-report/>
- Futurists
 - MIT Newsletter <http://www.technologyreview.com/>
 - The Digital Project Manager - <http://www.thedigitalprojectmanager.com>
- Government Trends / Regulations
 - Department of Labor – Job Projections thru 2022
 - <http://www.bls.gov/news.release/pdf/ecopro.pdf>

Guidance Counselor Strategy

- GOAL:
 - Establishing your “Career Counselor”, which could be different than your mentor !
- Deliverables
 - Find the trusted sources you can leverage to assist you in the journey
- Frequency
 - You can't network enough, you can't talk enough
- Advice
 - Leverage the Networking groups for “career discussions”
 - Find the hot project at work – make friends with someone on that team
 - Find a Meetup SPECIFIC to the space you are interested in

Aligning Assessment and Research

SWOT-About it ?



“Course Catalog” Strategy

- Goal: To assemble a range of resource from which you can pick classes from
- Deliverables:
 - A list of classes that align with the Gaps you have identified
- Frequency
 - As needed
- Advice
 - Make sure you are thinking about this in terms of Pre-requisites, Core Classes and Electives

Catalog / Class “Ideas”

- Organizations / Best Practices Sites (<http://cloudbestpractices.net/>)
 - <http://cloudu.rackspace.com/diweb/catalog/item/id/195089>
 - <http://roboticscourseware.org/>
- Meetups
 - <http://www.meetup.com/IBM-Watson-and-Cognitive-Computing/events/219201666/> (Youtube/IBM)
- Community Sites (<http://www.kaggle.com/competitions>)
- Commercial / Free Sites
 - MITOpenCourseWare / Udemy
- Youtube
 - Interviewing

Courses

This specialization covers the concepts and tools you'll need throughout the entire data science pipeline, from asking the right kinds of questions to making inferences and publishing results. The Specialization concludes ... [Show more »](#)

1 The Data Scientist's Toolbox

2 R Programming

3 Getting and Cleaning Data

4 Exploratory Data Analysis


5 Reproducible Research

6 Statistical Inference

7 Regression Models

8 Practical Machine Learning

9 Developing Data Products

 Data Science Capstone

Course 1

The Data Scientist's Toolbox

Start Now - \$29

Upcoming Session: Apr 6th 2015

Duration: 4 weeks

Estimated Workload: 1-4 hours/week

Upon completion of this course you will be able to identify and classify data science problems. You will also have created your Github account, created your first repository, and pushed your first markdown file to your account.

Your “Digital” Diploma Strategy

- GOAL:
 - Provide “proof” of your Career Curriculum
- Deliverable
 - Create a “Digital Profile” (Blog, Video, eBook)
- Frequency
 - Depends, but Content is King – the more the merrier
- Advice
 - If there are no Certifications / Designations - Make one up !
 - Watch “You the Product” for other ideas

Presentation Summary



**Do or Do Not
There is no Try**

- The time is NOW !!!
- Rules have changed
- Fast is the new normal
- Proactive vs Reactive
- Customer Engagement
- Network, Network, Network

Presentation Survey



How to Keep Pace with Me !



george@keep-pace.com



[@keeppace](https://twitter.com/keeppace)



Youtube.com/keeppace



Keep Pace Technology



Storify.com/keeppace



Pinterest.com/keeppace

