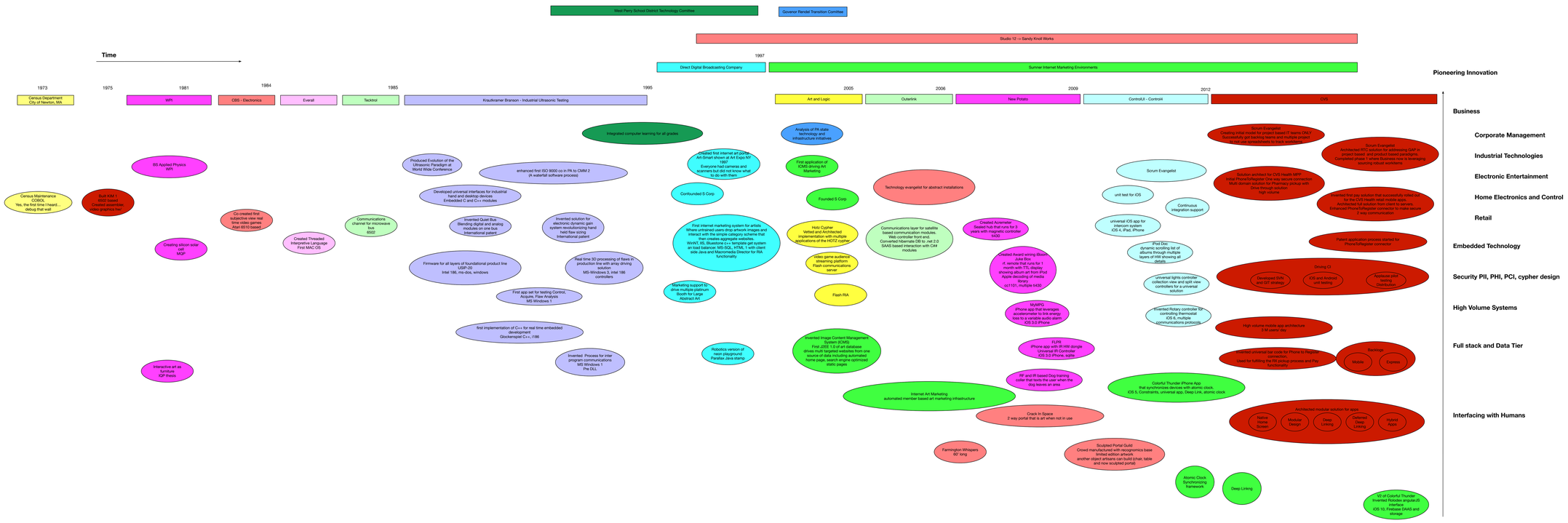
Pioneering Innovation
Time
1973
1975
1981
1984
1985
1995
1997
2005
2006
2009
2012
West Perry School District Technology Committee
Governor Rendal Transition Comittee
Studio 12 -> Sandy Knoll Works
Direct Digital Broadcasting Company
Sumner Internet Marketing Environments
Census Department
City of Newton, MA
WPI
CBS - Electronics
Everail
Tecktrol
Krautkramer Branson - Industrial Ultrasonic Testing
Art and Logic
Outerlink
New Potato
ControlUI - Control4
CVS
Business
Corporate Management
Industrial Technologies
Electronic Entertainment
Home Electronics and Control
Retail
Embedded Technology
Security PII, PHI, PCI, cypher design
High Volume Systems
Full stack and Data Tier
Interfacing with Humans
Integrated computer learning for all grades
Analysis of PA state technology and infrastructure initiatives
Scrum Evangelist
Creating initial model for project based IT teams ONLY
Successfully got backlog teams and multiple project
No Excel use spreadsheets to track workitems
Scrum Evangelist
Architected IT teams from waterfalling GAP in project based, and product based paradigms
Completed phase 1 where Business now is leveraging sourcing robust workitems
Census Maintenance
COBOL
Yes, the first time I heard...
debug that wall
Bell 108 1
6502 based
Created assembler
Video graphics hw
RS Applied Physics
WPI
Creating silicon solar
cell
MQP
Co-created first
subjective view real
time video games
Atari 6510 based
Created Threaded
Interpretive Language
First MAC OS
Communications
channel for microwave
bus
6502
Developed Evolution of the
Ultrasonic Paradigm at
World Wide Conference
Developed universal interfaces for industrial
hand and desktop devices
Embedded C and C++ modules
Invented Quiet Bus
Blending digital and analog
modules on one bus
International patent
Firmware for all layers of foundational product line
USIP-20
Intel 186, ms-dos, windows
enhanced first ISO 9000 co in PA to CMM 2
(A waterfall software process)
Invented solution for
electronic dynamic gain
system revolutionizing hand
held flaw sizing
International patent
Real time 3D processing of flaws in
production line with array driving
solution
MS-Windows 3, intel 186
controllers
First app set for testing Control,
Acquire, Flaw Analysis
MS Windows 1
first implementation of C++ for real time embedded
development
Glockenspiel C++, i186
Invented Process for inter
program communications
MS Windows 1
Pre DLL
Interactive art as
gesture
IQP thesis
Created first internet art portal
Art-Smart shown at Art Expo NY
1997
Everyone had cameras and
scanners but did not know what
to do with them
Confounded $ Corp
First internet marketing system for artists
Where untrained users drop artwork images and
interact with the simple category scheme that
then creates aggregate websites.
WinNT, IIS, Bluestone c++ template get system
an load balancer MS-SQL, HTML 1 with client
side Java and Macromedia Director for RIA
functionality
Marketing support to
drive multiple platinum
Booth for Large
Abstract Art
Robotics version of
neon playground
Parallax Java stamp
First application of
ICMS driving Art
Marketing
Founded $ Corp
Holtz Cypher
Vetted and Architected
implementation with multiple
applications of the HOTZ cypher
Video game auditing
streaming platform
Flash communications
server
Flash RIA
Invented Image Content Management
System (ICMS)
First J2EE 1.0 of art database
drives multi targeted websites from one
source of content, including automated
home page, search engine optimized
static pages
Internet Art Marketing
automated member based art marketing infrastructure
Technology evangelist for abstract installations
Communications layer for satellite
based communication modules.
Web controller front end
Conversion from VB 5 to .net 2.0
SAAS based interaction with C#4
modules
Created Acrometer
Sealed hub that runs for 3
years with magnetic controller
1430
Unedited Award wining Broom
Juke Box
rf, remote that runs for 1
month with TTL display
Wireless decoding of Media
Apple decoding of media
library
cc1101, multiple 1430
MyMPG
iPhone app that leverages
accelerometer to link energy
loss to a variable audio alarm
iOS 3.0 iPhone
FLPR
iPhone app with IR HW dongle
Universal IR Controller
iOS 3.0 iPhone, sqlite
RF and IR based Dog training
collar that tests the user when the
dog leaves an area
Crack In Space
2 way portal that is art when not in use
Farmington Whispers
60' long
Sculpted Portal Guild
Crowd manufactured with recognomics base
limited edition artwork
another object artisans can build (chair, table
and now sculpted portal)
Scrum Evangelist
unit test for iOS
Continuous
integration support
universal iOS app for
intercom system
iOS 4, iPad, iPhone
iPod Doc
dynamic scrolling list of
albums through multiple
layers of HW showing all
details
universal tights controller
collection view and split view
controllers for a universal
solution
Invented Rotary controller for
controlling thermostat
iOS 6, multiple
communications protocols
Solution architect for CVS Health MPP
Initial PhoneToRegister One way secure connection
Multi domain solution for Pharmacy pickup with
Drive through solution
high volume
Invented tray pay solution that successfully sold for
for the CVS Health retail mobile apps.
Architected full solution from client to servers.
Enhanced PhoneToRegister connector to make secure
2 way communication
Patent application process started for
PhoneToRegister connector
Driving CI
Developed SVN
and GIT strategy
iOS and Android
unit testing
Applique pilot
testing
Distribution
High volume mobile app architecture
3 M users/ day
Inverted universal bar code for Phone to Register
connection.
Used for fulfilling the Rx pickup process and Pay
fast(mobile)
Backlogs
Mobile
Express
Colorful Thunder iPhone App
That synchronizes devices with atomic clock.
iOS 5, Constraints, universal app, Deep Link, atomic clock
Architected modular solution for apps
Native
Home
Screen
Modular
Design
Deep
Linking
Deferred
Deep
Linking
Hybrid
Apps
Atomic Clock
Synchronizing
framework
Deep Linking
V2 of Colorful Thunder
Inverted Nodejs angular.JS
interface
iOS 10, Firebase SAAS and
storage