ELEC 694
COMP 694

Final Presentations

Scott Cutler
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4/17/2013
Current Roster

- Ryan Artecona
- Rob Bauer
- Enoch Chang
- Jianbo Chen
- Ahmed Haque
- Zhiyong Tan
A Few Videos to Get Started

- http://www.youtube.com/watch?v=cZwn3tSZmLg
Tuesday’s Events

- Outgoing Intel CEO Otellini: Materials, manufacturing our foundation
- 2014: The year of the Linux car?
- White House threatens to veto new CISPA bill ahead of vote
- First real-world usage figures suggest Chromebooks are struggling
- Microsoft, Google, and Apple: Which one faces doom in 2017?
- Windows 8, take 2? Let's see Start button, boot to desktop
- Google Glass Explorer Edition starts shipping now
- Google still wants Apple to use its maps, Eric Schmidt says
- YouTube creates 'Explosions at Boston Marathon' video page
- Microsoft brings fight to AWS with first full IaaS offering
Last Week’s Events of the Week

- LucasArts will not live happily ever after; Disney to shutter unit
- Microsoft needs to acquire Netflix, Jim Cramer says
- Facebook unveils 'Home,' a family of apps for your Android phone
- Hurrahs and Harrumphs for T-Mobile
- HP shakes up board again, Lane steps down as chairman
- Google releases full Google Glass explainer video
- Google parts ways with Apple over WebKit, launches Blink
- Facebook's Sprawling New HQ Designed by Frank Gehry
- Servers, datacenters to see same upheaval as PC industry
- Microsoft's Office for iOS, Android: Not until fall 2014?
- HP and Microsoft tumble after worst PC sales drop
- Intel releases Web-based app programming kit
- Dish launches $25B bid for Sprint
Schedule for Spring 2013

- 01/09/13  Introduction and Accelerating Technology *(Cutler)*
- 01/16/13  Disruptive Technologies *(Cutler)*
- 01/23/13  Creating and Delivering Great Presentations *(Volz)*
- 01/30/13  Consumer Medical Electronics *(Ahmed Haque)*
- 02/06/13  Identity Theft / Phishing *(Enoch Chang)*
- 02/13/13  Internet of Things *(Ryan Artecona)*
- 02/20/13  No Class – family emergency
- 02/27/13  No Class - Rice midterm recess
- 03/06/13  Storage *(Jianbo Chen)*
- 03/13/13  No Class – family emergency
- 03/20/13  HTML 5 *(Zhiyong Tan)*
- 03/27/13  Ecosystem Group Discussion *(All)*
- 04/03/13  Internet Video *(Rob Bauer)*
- 04/10/13  Topics Not Chosen *(Cutler)* - Prep for Final Projects *(All)*
- 04/17/13  Final Projects - Final Papers Due *(All)*
- 04/21/13?  Possible Optional Off-site (a.k.a. end of semester party)
Class Off-Site

- Sunday, 4/21/13
  - 12:00pm – 4:00pm
  - Directions to be emailed separately

Activities
- Lunch included (anyone need vegetarian?)
- Boat rides if weather good
- Pool will be open (temperature??)
- Beatles Rock Band, Kinect Dance and Star Wars

Attendees
- Anyone can’t make it except Rob?
Final Paper

- Everyone has to submit a paper on any of the topic from the list
  - 99% chose same topic as presentation!
- Roughly 20 pages; but can be more or less
- Covers same material as presentations with a stronger emphasis on the future and what other technologies impact or are impacted by chosen topic.
- Submit electronically – save trees
- *Can be started and submitted at ANY time*
  - Due TODAY – two submitted as of Tuesday evening
Final Projects

- At the April 3rd class, you were assigned to one of two teams.

- You were given a topic covering a technology with a 10 year horizon.

- The April 10th class started with a discussion on Topics Not Chosen followed by prep time for final project.

- April 17th class will consist of two 15-20 minute group presentations on final topic.
Final Projects

- Topic:
  - Automobile Electronics in the year 2020

- Team A
  - Ahmed Haque
  - Ryan Artecona
  - Zhiyong Tan

- Team B
  - Enoch Chang
  - Jianbo Chen
  - Rob Bauer
Final Projects

Scott Cutler
4/18/2012
Concluding Thoughts
Rapidly Learning a New Technology

- Start by going broad, but not deep
- Expand at will
- By one week, you will know what you don’t know
- Prune and Focus
- Determine your key takeaway points
- Block out a story which supports your points
- Practice for real before actual presentation

- Keep abreast of any developments in related topics
  - Think about changes in terms of enablers or roadblocks
MIT Area Exam

- Learn a new topic in less than a month
- Present to a panel of experts
- Show you are aware of local activities
- Failure results in being dismissed from program

- This was my biggest takeaway from MIT
  - Used many times in a successful 25 year career primarily being a CTO.
  - Used whenever I moved to a new city

- This is ELEC/COMP 694
  - NOBODY got dismissed from the program!
Understand Disruptive Technological Changes

Even the most dominant companies in their field will face major challenges!

Source: Christensen - *The Innovator’s Dilemma*
Three Takeaways

- You can learn a new technology rapidly
- Importance of remaining aware
- Even dominant companies are challenged by new paradigms – and that means opportunities