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ELEC 694  
COMP 694

# Final Presentations

Scott Cutler  
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4/17/2013



# Current Roster

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■ Ryan Artecona



■ Jianbo Chen



■ Rob Bauer



■ Ahmed Haque



■ Enoch Chang



■ Zhiyong Tan



# A Few Videos to Get Started

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- <http://www.youtube.com/watch?v=cZwn3tSZmLg>
- [http://www.ted.com/talks/keller\\_rinaudo\\_a\\_mini\\_robot\\_powered\\_by\\_your\\_phone.html](http://www.ted.com/talks/keller_rinaudo_a_mini_robot_powered_by_your_phone.html)



# Tuesday's Events

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- [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

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- [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

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- 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

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- 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

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- At the April 3<sup>rd</sup> class, you were assigned to one of two teams.
- You were given a topic covering a technology with a 10 year horizon.
- The April 10<sup>th</sup> class started with a discussion on Topics Not Chosen followed by prep time for final project.
- April 17<sup>th</sup> class will consist of two 15-20 minute group presentations on final topic.



# Final Projects

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- Topic:
  - Automobile Electronics in the year 2020
- Team A
  - Ahmed Haque
  - Ryan Artecona
  - Zhiyong Tan
- Team B
  - Enoch Chang
  - Jianbo Chen
  - Rob Bauer



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# Final Projects

Scott Cutler  
4/18/2012



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# Concluding Thoughts

Scott Cutler  
4/17/2013



# Rapidly Learning a New Technology

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- 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

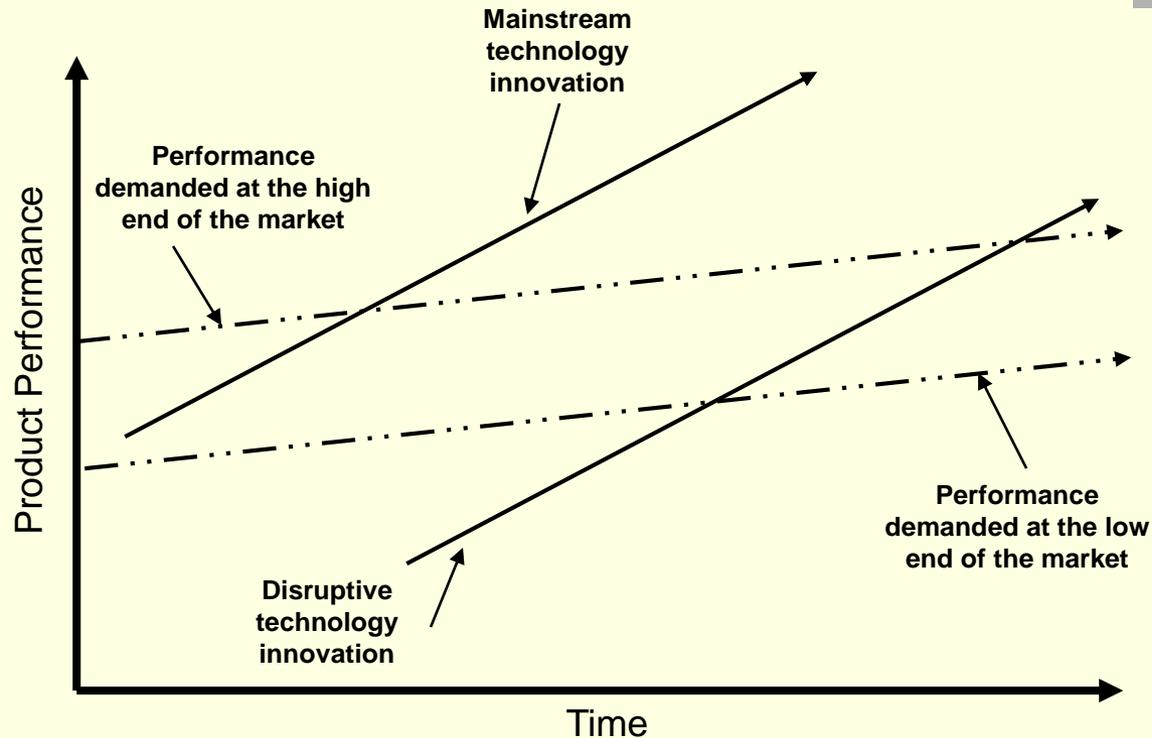


# MIT Area Exam

- 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



Source: Christensen - *The Innovator's Dilemma*

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



# Three Takeaways

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

