Topics Not Chosen
Current Roster

- Ryan Artecona
- Rob Bauer
- Enoch Chang
- Jianbo Chen
- Ahmed Haque
- Zhiyong Tan
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)
Next Week’s Mini-Discussion

Some weeks, we will have a short group discussion on a topic rather than Events of the Week.

Purpose is an exercise in thinking beyond the top level issues of a topic.

I expect roughly 30 minutes of research and thought.

Our final mini-discussion is this week. Next week we have:

Events of the Week

Presented by All
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 April 17
Final Projects

- At the April 3rd class, you will be assigned to one of two teams.
- You will be given a topic covering a technology with a 10 year horizon.
- The April 10th class will start with a discussion on Topics Not Chosen (I will present) 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
Seminar #12

- Final projects – Teams A and B
  - Logistics
    - Wednesday, April 17, 9:30 – 11:00, DH-2014

- Mini-Discussion – Final Events of the Week

- One-on-One meetings:
  - None!
Topics Not Chosen
Candidate Topics – Spring 2013

- Advanced Computer Inputs – Kinect, Touch Screens
- ARM vs. x86 for mainstream usage and/or Intel vs. NVIDIA
- Automotive Electronics beyond the engine including GPS, XM audio, XM data, cellular data
- Cloud Computing
- Consumer Medical Devices / Electronic Medical Records (consumer)
- Digital Living Room - AirPlay and dLNA, networked receivers
- HTML 5
- Identity theft / phishing
- Intellectual Property, patent trolls, law suits, DRM for movies / TV ad revenue model
- Internet of things, Embedded cellular data modems, Ultra low powered computing
- Internet Video / Netflix / Google TV, Apple TV, repurposed game machines
- Main Stream Processors and Chipsets / Parallel, multi-core technology for consumer uses
- NFC and Mobile Payments
- Shared Metered 4G LTE Data Plans
- Social Media – specifically Facebook long term or quick rise/fall or Twitter business model
- Storage – SATA, Solid State Drives, Flash, RAID, Backup, disk in the clouds
- Voice Recognition Assistants
- Windows 8 / 8RT
Advanced Computer Inputs
ARM vs. x86 for mainstream usage and/or Intel vs. NVIDIA
Cloud Computing
Digital Living Room - AirPlay and dLNA, networked receivers

VSX-1123-K

• WiFi Ready with AirPlay, dLNA, HTC Connect & Pandora Music Streaming
• 7.2 Channels with Advanced Audio & 1080p Video Processing
• FREE Advanced Remote Control App for Apple & Select Android Devices, "iControlAV2012"
• Ultra HD (4K) Upscaling and Pass-Through
Digital Living Room - AirPlay and dLNA, networked receivers - 2

AirPlay
Broadcast live to your HDTV and speakers.
Intellectual Property, patent trolls, law suits, DRM for movies / TV ad revenue model
Main Stream Processors and Chipsets

- 64 bit computing
- Parallel, multi-core technology for consumer uses
NFC and Mobile Payments
Shared Metered 4G LTE Data Plans

WE DID THE MATH. DATA CAPS = HEADACHES.

Unlimited data from Sprint means you don’t have to do the math. Look how fast you hit your data cap with Verizon or AT&T. Some things should be monitored. Like your 4-month-old baby. Or your bank account. But not your data.

4.5 HOURS of streaming music + 1 HOUR of YouTube videos + 85 PHOTOS uploaded and downloaded + 9 DOWN LOADS of apps and games = 1GB

The above numbers are estimates and data transfer amounts may vary. Our math works like this: 1024 KB=1MB, 1024 MB=1 GB. We used these estimates to do our calculations on each type of data transfer: music streaming: 600KB/hr, video streaming: 2500KB/hr, picture: 300KB/image, 20KB/downloads.
Social Media – specifically Facebook long term or quick rise/fall or Twitter business model
Voice Recognition Assistants

Dragon NaturallySpeaking

Tell me.
A Microsoft® Subsidiary

Speak now
Google Search

Cancel
Windows 8 / 8RT
Automotive Electronics

- *I would not want to spoil all of your fun!*
So Many Technologies

Life is good!