What's left?

- 11/21: All Hands Meeting Scheduled
- 11/26: Team Status Reports / Design Day Questions / SIRS
- 11/30: Ethics and Professionalism
- 12/05: Project Videos
  - No 1:00pm
  - Via USB Stick
  - Posted for Design Day Judges Immediately After Meeting
- 12/07: All Project Deliverables
  - No 1:00pm
  - Via USB Stick
  - Source Code (Check Out of Repository)
  - Common Project Folder
  - Manuals
  - .wmv and Other Formats
- 12/08: Team Evaluation Form
  - No 1:00pm
  - Via Email
  - See Submission Instructions at End of Form
- 12/08: Design Day Setup, 3:30pm
- 12/09: Design Day, 7:00am

Grading

- Team (70%)
  - Project Plan Document & Presentation
  - Alpha Presentation
  - Beta Presentation
  - Project Video
  - Project Software & Documentation
  - Design Day
  - Total
- Individual (30%)
  - Technical Contribution
  - Team Contribution
  - Team Evaluation
  - Meeting Attendance
  - Total

Today

- Network Issues in Capstone Lab
  - Wired?
  - Wireless?
- Graduation Breakfast
- Design Day Equipment Requests
- Intellectual Property
- SIRS

Design Day Equipment Requests

- Think/Plan
- Diagram Equipment
  - Layout
  - Connections/Connectors
    - Gender
    - Type
- Fill In Your Team Sheet
- Email to Dr. D.
  - (team-<team-name>-dd-er.xls)

Caveat Emptor

- Opinions Expressed
  - My Own
  - Do Not Represent MSU
- Not an Attorney
- No Warranty
  
  THIS LECTURE IS GIVEN IN THE HOPE THAT IT WILL BE USEFUL, BUT WITHOUT ANY WARRANTY. IT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LECTURE IS WITH YOU. SHOULD THE LECTURE PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

11/21: Intellectual Property

The Capstone Experience

Dr. Wayne Dyksen
Department of Computer Science and Engineering
Michigan State University
Fall 2011
Lots of Variables

- Who Your...
  - ...Employer Is
  - ...Customers Are
- Very Different Rules/Laws/Policies
  - Industry
    - Privately Held
    - Publicly Held
  - Government
  - Government Contractor
  - Educational Institution
  - Etc...

Intellectual Property

- "Ideas" Worth Money
  Must be able to "fix in a tangible medium".
- How to Make Something
- How to Do Something
- Work of Art (Music, Movie, Photo, Painting, Novel, Etc.)
- Pharmaceutical
  - Process
  - Algorithm
  - Etc...
- Types
  - Copyrights
  - Patents
  - Trademarks
  - Trade Secrets
  - Etc.
- Must Protect
  - Check with an IP attorney.

Patent vs Copyright

- Patent
  - Own "Idea" For 20 Years
  - Protect Via Patent Process
  - "Easier" to Enforce Protection
- Copyright
  - Own "Text" For Life of Author + 50 Years
  - Protect Via
    - "Automatically"
    - "© 2011 by Wayne Dyksen. All Rights Reserved."
    - By Formally Registering
  - "Harder" to Enforce Protection

Patent vs Trade Secret

- Patent
  - Own "Idea" For 20 Years
  - Protect Via Patent Process
  - "Easier" to Enforce Protection
- Trade Secret
  - Own "Idea" Forever
  - Protect Via Non-Disclosure and Non-Compete
  - No Enforcement Protection if Secret Disclosed

Interesting Examples of Trade Secrets
- Coke Formula
- Houdini's Tricks

IP Enforcement

- Laws
  - US State & National
  - Non-US National
  - International
- Big Problem
  - Counterfeiting Rampant
    - Software
    - Drugs
    - Music, Movies, Etc.
    - Clothing & Accessories
    - Etc...
  - Enforcement Non-Existent in Some Countries
  - Software Alone $51.4B Last Year

Non-Disclosure Agreement (NDA)

- You agree not to misuse company information.
  - Trade Secrets
  - Copyrights
  - Confidential Information
    - Product Plans
    - Software
    - Schematics
    - Etc.
    - Etc...
  - Misuse Includes...
    - ...Disclosing
    - ...Selling
    - ...Using for Your Startup Company
    - ...Using at Next Employer
    - Etc.
Intellectual Property Agreement (IPA)

- You agree to assign all IP created to your employer.
  - Copyrights
  - Patents
  - Trade Secrets
  - Etc...
- Agreements Vary in Scope
  - Relationship of IP to Your Job
  - Time
- What happens if you...
  - ...create patented IP that makes your employer $1B?
  - ...leave your employer to patent an idea on your own?

Non-Compete Agreements

- You agree not to compete with your employer.
- Agreements Vary in Scope
  - Relationship of Employer Markets
  - Position
  - Time
  - May Affect
    - Moonlighting
    - Career
  - Can Be Very Restrictive

Employment Agreements

- Required as Condition of Employment
- Agreement May Cover
  - Non-Disclosure
  - Intellectual Property
  - Non-Compete
  - Etc...
- Agreements Vary
  - Employer
  - Position
  - Probably Non-Negotiable for You

Remedies

- What happens if you violate an agreement?
- Agreements Vary
  - Function of
    - Employer
    - Position
    - Etc.
  - Can Be Severe
  - Should Be Taken Seriously
- Often Monetary Damages Levied Against
  - You Personally
  - Your Startup Company
  - Your New Employer
  - Not to Be Taken Lightly

Seek Professional Advice

- If your idea is valuable, protect it.
- Invest
  - Time
  - Money
- Consult
  - Trusted, Experienced Mentors
  - State and Local Development Authorities
  - IP Attorney
- In Advance

Typically pursued in civil courts vis-à-vis criminal courts.