

**MICHIGAN STATE**  

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**U N I V E R S I T Y**

**11/03:**  
**Intellectual Property**

**The Capstone Experience**

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*From Students...  
...to Professionals*

# What's ahead?

(1 of 3)

- Week 11
  - 11/03: Intellectual Property
  - 11/05: Ethics and Professionalism
- Weeks 12, 13
  - 11/10, 11/12, 11/17, 11/19
  - Beta Presentations
- Week 14
  - 11/24: Project Video Status Reports
  - 11/26: Status Reports



# What's ahead?

(2 of 3)

- **Week 15**
  - **12/01: Project Videos**
    - Due by 1:00 p.m.
    - Via USB Stick to Dr. D.
  - **12/03: Project Videos and All Deliverables**
    - Due by 1:00 p.m.
    - Via USB Stick to Dr. D.
  - **12/04: Design Day Setup**
    - 3:00 p.m. –
    - Meet in Capstone Lab
  - **12/04: Team Evaluation Form**
    - Due by 5:00 p.m. Via Email
    - Read submission instructions.



# What's ahead?

(3 of 3)

- **Week 15**

- **12/05: Design Day**

- 6:30 a.m. – 2:30 p.m.
    - 6:30 a.m.: Setup and All-Hands Photo
    - 9:00 a.m. – Noon: Project Exhibitions
    - 7:30 a.m. – 11:45 a.m.: Team Presentation to Judges
      - ❖ See [Design Day Schedule](#)
      - ❖ [Room 3405 EB](#) (Around Corner from Capstone Lab)
    - 1:15 p.m. – 2:15 p.m.: Awards Ceremony
    - 2:30 p.m. – 6:30 p.m.: Gathering

- **Week 16**

- **12/09: Project Videos**

- 3:00 p.m. – 5:00 p.m.



# Caveat Emptor

- Opinions Expressed
  - My Own
  - Do Not Represent MSU
- Not an Attorney
- No Warranty

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# Lots of Variables

- Who Your...
  - ...Employer Is
  - ...Customers Are
- Very Different Rules/Laws/Policies
  - Industry
    - Privately Held
    - Publically 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
  - Harder to Obtain
  - Easier to Enforce Protection
- Copyright
  - Own “Text” For Life of Author + 50 Years
  - Protect Via Copyright
  - Easy to Obtain
    - Automatically
    - “© 2014 by Wayne Dyksen. All Rights Reserved.”
    - By Formally Registering
  - Harder to Enforce Protection

Check with an IP attorney.

What’s the motivation for granting patents and copyrights?

- Google
- Classic Books
- Happy Birthday





# 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 Escapes



# IP Enforcement

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



# 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 earns 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

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



# 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

