1. Who are you

* Anastasii Mishchenko
* Ukraine
* Energy Informatics
* Exchange year as an MC student (2016/17)
* Bachelor in Softwere Engineering

1. What do you expect

* To get the understanding of home and build automation

1. Strength and weaknesses

Strength:

* + Goal oriented
  + Strict to the deadlines

Weaknesses:

* Postpone till the last minute

Film 1(Bing Bang Theory)

scenarios and application domains

* Lighting
* Privacy

– technologies

* using the Internet

– feasibility

what might be doable? what not?

when?

* Yes (remote control)

– weirdness/crazyness (any concerns?)

* useless
* crazy
* not efficial usage of resources, more for fun

Film 2(Semens)

scenarios and application domains

* Security and safety
* Optamized usage of Energy
* Energy cooperation with other fields except distribution
* Dynamic statistic collecting and usage
* Navigation solutions
* Safe ecvacuation
* Exchange information in a real time
* Parking

– technologies

* Intelegent networks
* Lighting and voice guidense
* Holographic display
* Smart grids
* Sencors (on floors, security sensors)
* Elevators
* Electric cars

– feasibility

what might be doable? what not?

when?

* Not yet (Holographic display, elavators, sencors on a floors)
* Possible (electric cars, smart grids, lighting and voice guidance)

– weirdness/crazyness (any concerns?)

* No

Film 3(The Internet of Scrimps)

scenarios and application domains

* control lights
* serves drinks
* safety
* organize incoming calls and social medias

– technologies

* voice control system
* social networks
* Internet
* Cell phone
* Tablet
* Intelligent Fridge

– feasibility

what might be doable? what not?

when?

* Yes
* No(drinking maschine)

– weirdness/crazyness (any concerns?)

* Nope
* Yes (playing music on a kitchen supplies)

IoT

Simply put, this is the concept of basically connecting any device with an on and off switch to the Internet (and/or to each other). It is the network of physical devices, vehicles, home appliances and other items embedded with electronics, software, sensors, actuators, and connectivity which enables these objects to connect and exchange data. Each thing is uniquely identifiable through its embedded computing system but is able to inter-operate within the existing Internet infrastructure.

Domains:

1. Healthcare - Monitor hand hygiene compliance through IOT device and sensors to reduce transmission of Hospital Acquired Infections to patients.
2. Transport and logistics - Monitoring the logistics vehicles health to send alerts.
3. Retail - Remote interaction with products increase personalized shopping experience.
4. Insurance - Tracking clients' activity and offer discounts or rewards for healthy and safe behavior.
5. Banking - Smart payments.
6. Space - MARS Rover.
7. Construction and Real Estate - Smart home devices/locks/camera/security.
8. Farming - Tracking soil health and climate.
9. Industrial internet - Smart Fleet management and more sensors/data in Aircraft to avoid failures.
10. Wearables - Health monitoring and Fitness tracking.

Devices:

* Fitness trackers
* Smart lock
* Smart phoones
* Smart grids
* Bluetooth tracker
* Wifi lighting
* Thermostats
* Light ballb
* Home Energy Monitors
* Etc

Explanation:

<https://youtu.be/QaTIt1C5R-M>

https://www.youtube.com/watch?v=QaTIt1C5R-M#action=share

Resources:

https://www.quora.com/The-Internet-of-Things-IoT-comes-under-which-domain