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InnoGators Internet of Things (IoT) Workshop

Agenda

- Introduction to InnoGators
- What is IoT?
- Forms and Fields of IoT
- How to start your own IoT
- Kahoot
- Q+A

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Icebreaker

- Someone starts by saying their first name and last name. Then say two truths and a lie.
- Whoever figures out the lie says their own name, two truths and a lie and so on.

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To create a space of innovation and collaboration by inviting culturally diverse minds and talents to influence the engineering design experience

What is InnoGators

- Design team focused on the journey and not the destination
- Work on interdisciplinary projects while strengthening your respective skillset
- Big focus on learning and building community

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TJ Thomas
President

Keri-Anne Lue
Vice President

Jenna Scott
Secretary

Logan Hickox
Mechanical Lead

Bryce Herrera
Electrical Lead

Keanu Budham
Software Lead

Current Projects

Smart Grinder

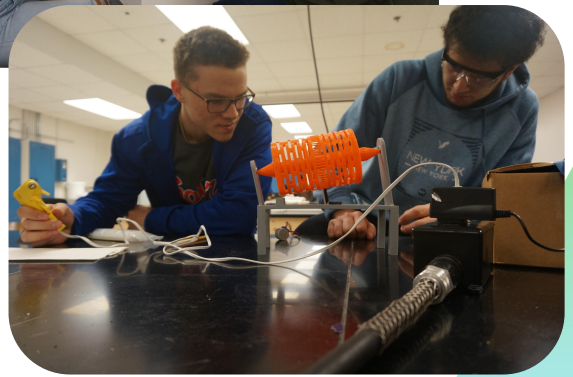
- Developing an automated grinding system to aid in the recycling process for waste 3D printed parts and filament.

Drone Project

- With this project, we are programming a DJI Tello drone to fly a predetermined course in preparation for the SkillsUSA drone competition that is in the works.

How to Get Involved

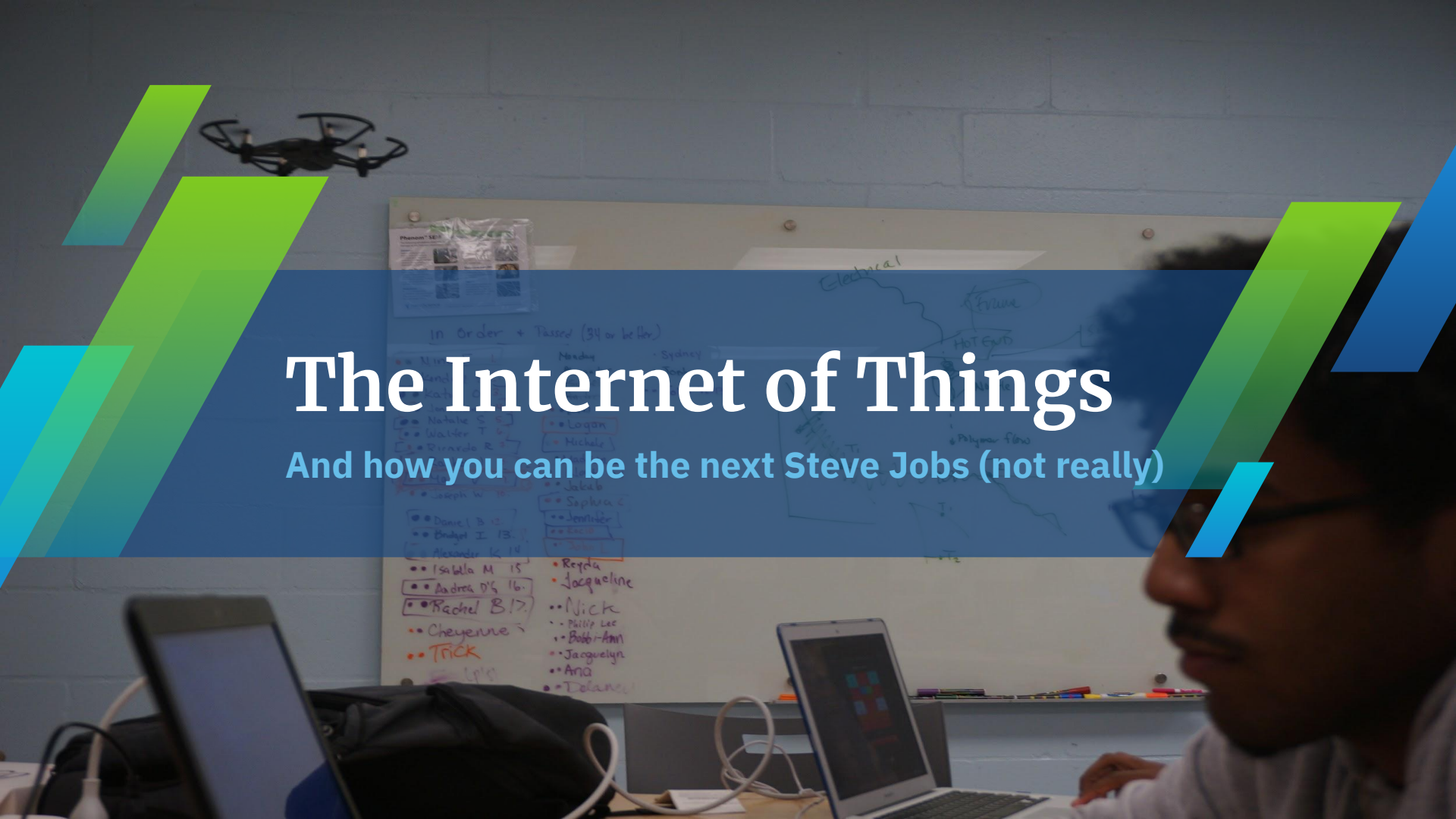
- Follow the flowchart on www.innogators.weebly.com
- Submit an interest form
- Follow us on socials @innogators
- Join the slack and trello
- Take initiative at meetings



Summer Workshop Series

Professional Development

August 14



The Internet of Things

And how you can be the next Steve Jobs (not really)

What exactly is IoT?

- Essentially incorporating internet and technological connections as well as machine learning and AI across everything that we interact with so that they communicate with each other.

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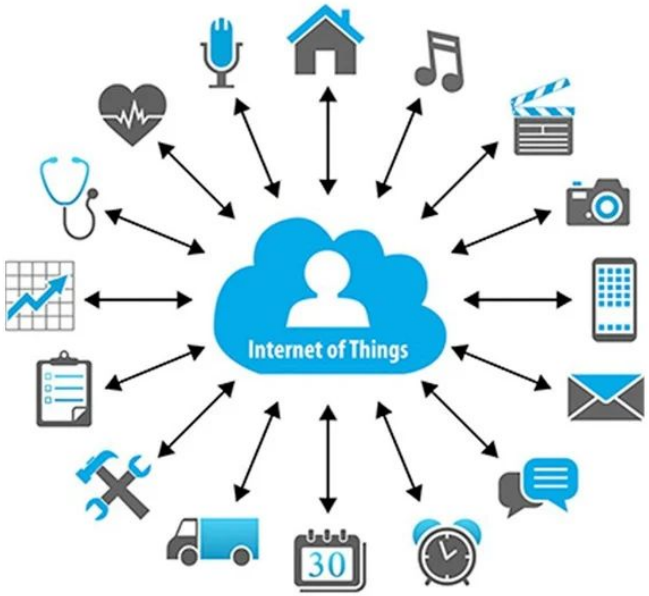
Forms of IoT



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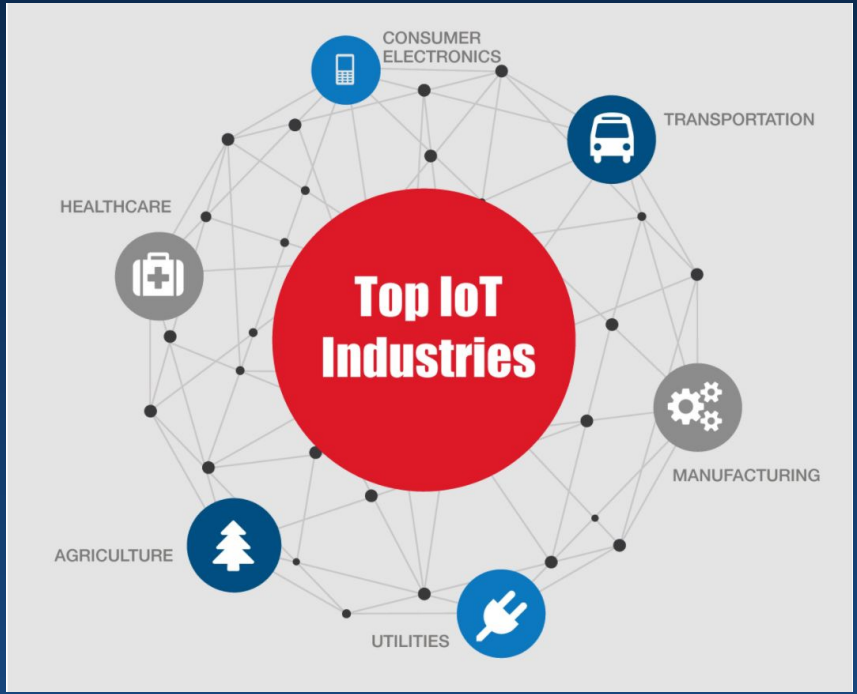
History Behind IoT

Fields that use IoT



Why is IoT important?

- Consumer-friendly in that it can be geared towards the user’s preferences
- Ease of access
- Improves the quality of business’s services due to the automation of tasks

IoT in InnoGators

How do we create IoT devices?

- Identify the problem(s) that you're trying to solve.
  - Faster transportation? Better music selection? Robot takeover?
- What category does your device fall under?
  - Healthcare, transportation, consumer electronics, etc.

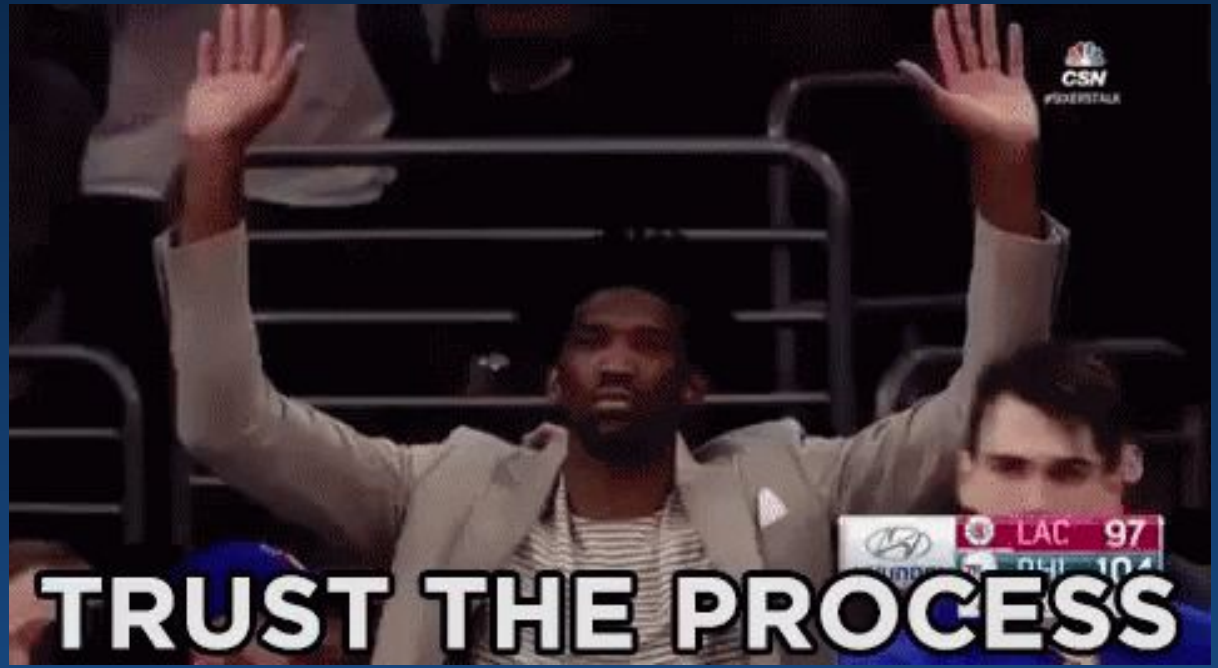
IoT Platform

- Choose an IoT platform and tools
  - Hardware tools
    - Arduino, Raspberry Pi, sensors, GPS, microcontrollers, etc.
  - How does it need to be connected?
    - Wi-Fi, Bluetooth, USB
  - Platforms
    - Cloud servers such as Amazon AWS IoT, Microsoft Azure IoT

Prototyping

- Should deliver the solution you planned
  - Can implement the fancy stuff later
- Doesn’t have to be production-ready
  - Plans and concepts will change in the future
- **Put focus on the software side**
  - Don’t think of it as just hardware support
- And most of all…

Trust The Process!!!



Now how to be the next Steve Jobs...

- Try researching and building your own IoT device!
- https://www.instructables.com/id/IOT-Based-VibrationFirepressure-Temperature-Monito/
- https://www.techiexpert.com/5-iot-projects-for-self-learning-for-beginners/
- https://www.insidermonkey.com/blog/10-easiest-iot-projects-for-students-617480/

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Questions?

Kahoot: What did you learn?

Go to kahoot.it and wait for game PIN

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Thank you for coming!
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