

**ASHOKA**  
UNIVERSITY

Project Proposal

# Robotics and IoT Tinkering Lab

*Fostering Learning by Doing*

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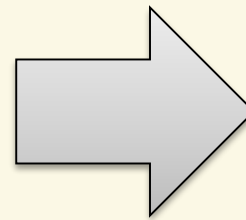
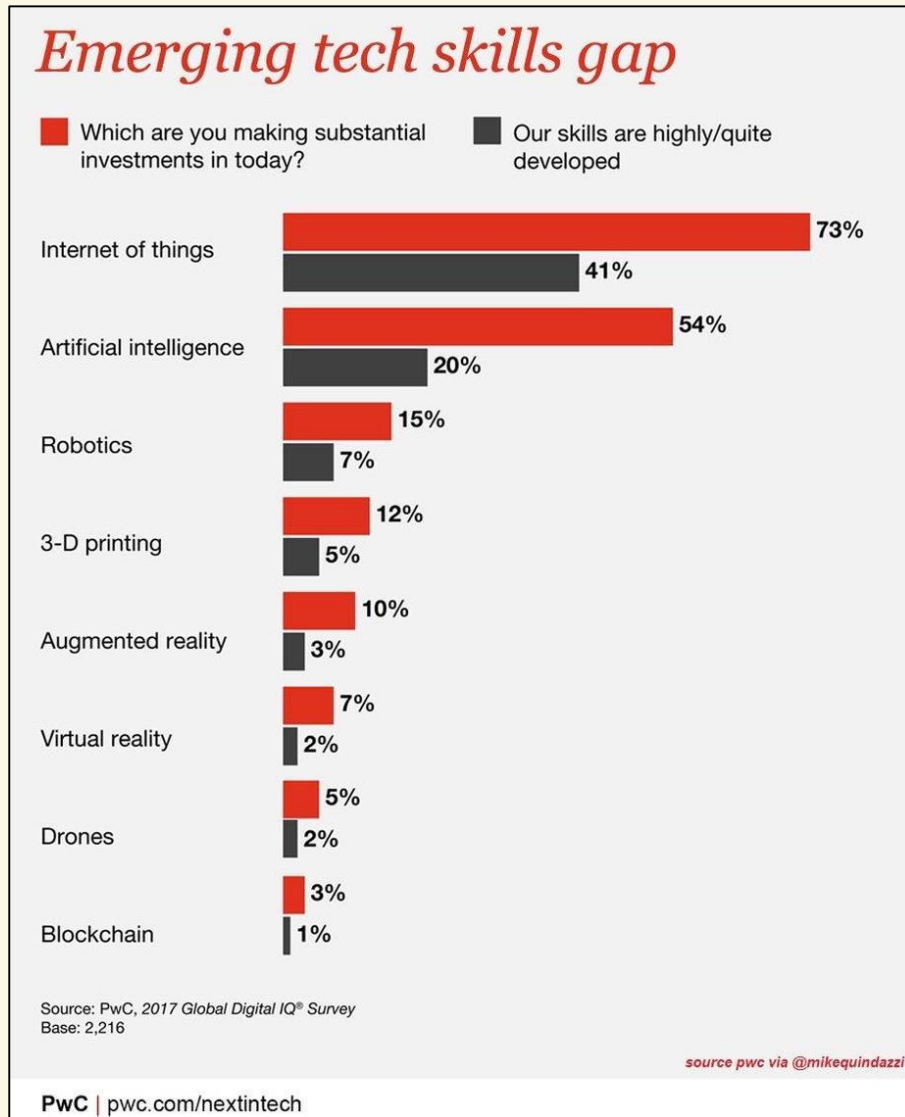
IN COLLABORATION WITH



**Penn**  
Engineering

**Carleton College**

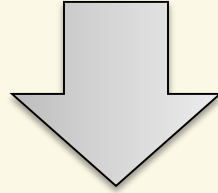
# Why Robotics and IoT



These are Future Skills (Employability)

# Why Tinkering Lab

Tell me and I forget, teach me and  
I may remember, involve me and  
I learn  
- Benjamin Franklin -



Foster curiosity, creativity and imagination

Foster learning by doing

Foster design mindset

Foster creating and making mindset

# How a Tinkering Lab Looks (Features)

- A workspace to accommodate 30-40 students
- Consists of tools and equipment
- Contains educational 'do it yourself' kits
- LCD screen with projector, white boards
- Furniture which enables group working
- Drawers & cupboards for storing equipment



# Financial budget and plan

- Create an organization structure (5 member committee – involving 1-2 students )
- Committee creates a list of equipment to procure
- Allocate a 800 - 1200 square feet room for the lab
- Build the interiors and set-up the furniture
- 1-2 committee members visits 2 tinkering labs (set reference & benchmark)
- Committee creates a financial plan, timeline, guidelines on utilization
- **Goal** : Inauguration and functioning from 1<sup>st</sup> August 2018
- **Financial estimate** : 10-12 Lakhs for equipment, 10 – 12 Lakhs for interiors



Thank You