Introduction to ICT (IC101)

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Imagination,
Creative
thinking,
Ideation

Sensors, Embedded systems Data, Computing

All go into the roll out of a final product!

Packaging Ergonomics

Usability,
User Experience

Value for Money

■ Velcro? [RECAP]

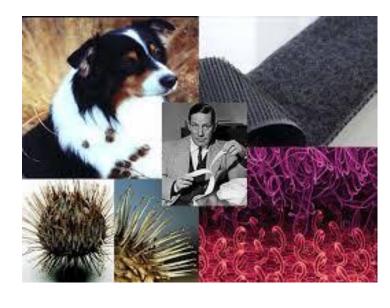
Can somebody tell me what is 'Velcro'?

- It is a "hook-and-loop" fastener invented in 1941, a combination of the French words "velours" (meaning velvet) and "crochet" (hook).
- It was formally patented in 1955.
- US Army formally denounced the use of velcro from from military uniforms in Aug 2010.

Who invented it?

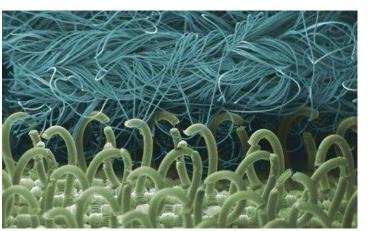
A brainchild of George de Mestral (June 19, 1907 – February 8, 1990), a Swiss electrical engineer, who went for a walk in the woods and wondered if the burrs that clung to his trousers — and dog — could be turned into something useful.





One of the original pioneers of the biomimicry field





Images taken from www Subject to copyright.

- Examined the burrs under a microscope and decided to devise a unique fastener that imitated the burrs' microscopic hooks.
- He realized that nylon when sewn under infrared light formed tiny but tough hooks, which easily attached themselves to softer, velvety nylon fabric.
- So the hook (from the burr) and the loops (from the fur/fabric) set in motion an idea.

Sumit Dagar, DA-IICT alumnus (200401137 BTech, a TED Fellow)



Can somebody tell me what is TED?

■ TED (technology, entertainment, design)

- Sumit Dagar Touch screen phone for the visually impaired (https://www.youtube.com/watch?v=F2ZQU07UJXA)
- What is a Design : Sumit Dagar at TEDxRVVidyaniketan (https://www.youtube.com/watch?v=8ReahSISWAw)
- Sumit Dagar AVP 1MG shares his insight! (https://www.youtube.com/watch?v=S6RfmsvyVDA)
- Designing user-friendly technology (<u>https://www.youtube.com/watch?v=HEgGEkwTzfE</u>)

Pranav Mistry?

- Pranav Mistry, President and CEO of STAR Labs
- As an MIT grad student, Pranav Mistry invented SixthSense, a wearable device that enables new interactions between the real world and the world of data.
- Bachelors degree in Computer Science and Engineering from Gujarat University.



Pranav Mistry?

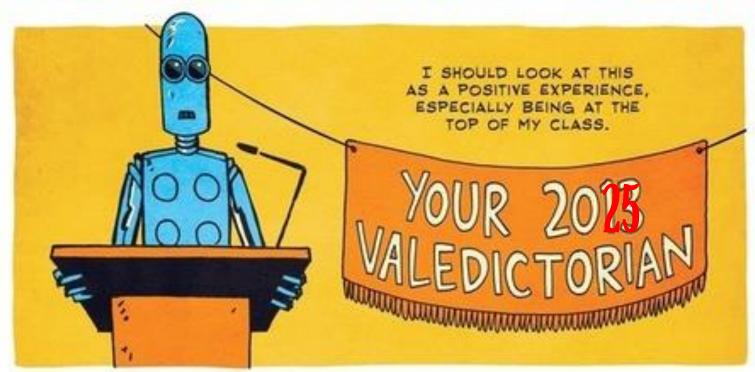
- TED talk by Pranav Mistry (2009)
- The thrilling experience of SixthSense technology (https://www.ted.com/talks/pranav_mistry_the_thrilling_potential_of_sixthsense_technology?language=en)

■ You can be an inventor, too ...

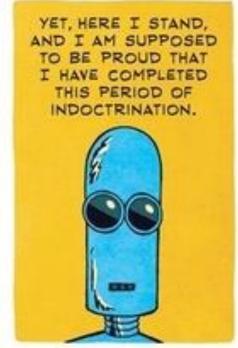
We keep discussing about similar product ideas, inventions and projects during this semester which might excite you to keep observing about whatever has been happening around you and how you can think of designing some solutions for them.

Zen Pencil_I am graduating









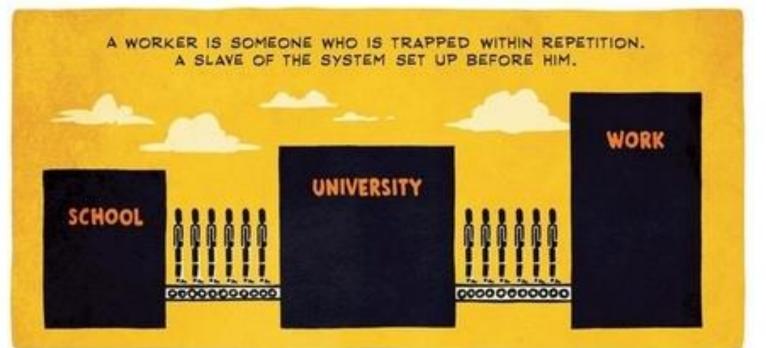
I WILL LEAVE IN THE FALL TO GO ON TO THE NEXT PHASE EXPECTED OF ME, IN ORDER TO RECEIVE A PAPER DOCUMENT THAT CERTIFIES THAT I AM CAPABLE OF WORK.

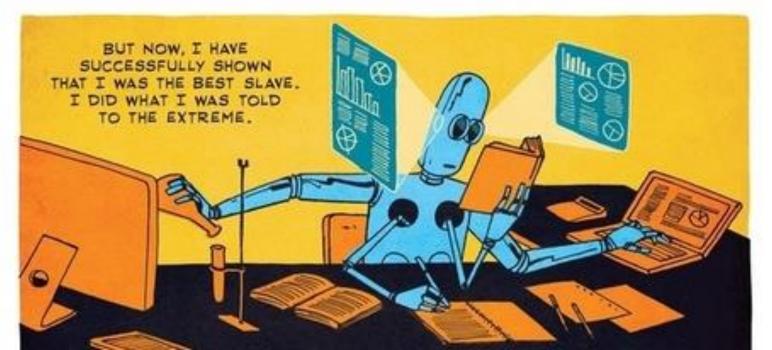




Each of you is

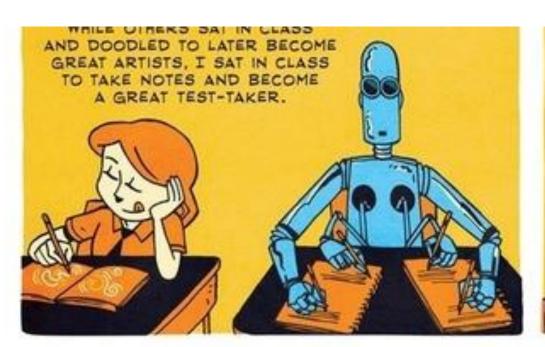
- a human being,
- a thinker,
- a creator,
- an explorer,
- anadventurer
- not just
- a worker, or
- a follower





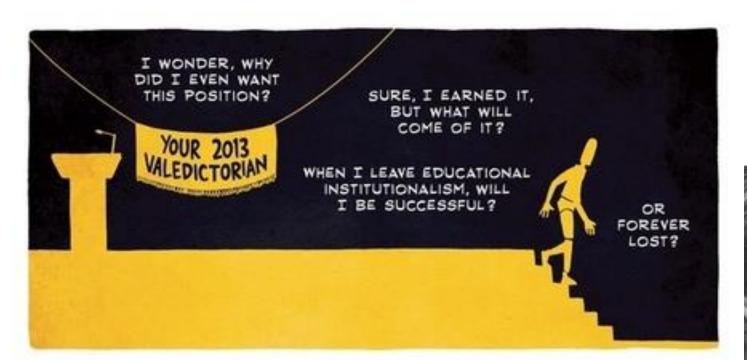
Don't become a slave who does what is told or instructed.

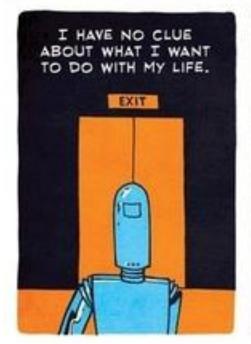
Educational campuses are not seen as a factory which produce zombies or ginies.

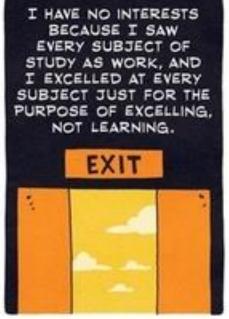


WOULD COME TO
CLASS WITHOUT THEIR
HOMEWORK DONE
BECAUSE THEY WERE
READING ABOUT AN
INTEREST OF THEIRS,
I NEVER MISSED
AN ASSIGNMENT.

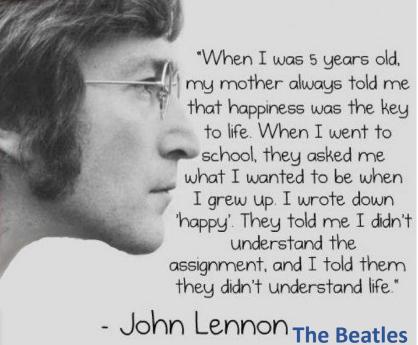












Always ask yourself – "what I want to be when I grew up?" – A robot or a happy person?



"YORK I SHIR SHOOK, APARTS I SAME JUNE THAT SHIP

zen pencils.com

Let's listen to this soundtrack

