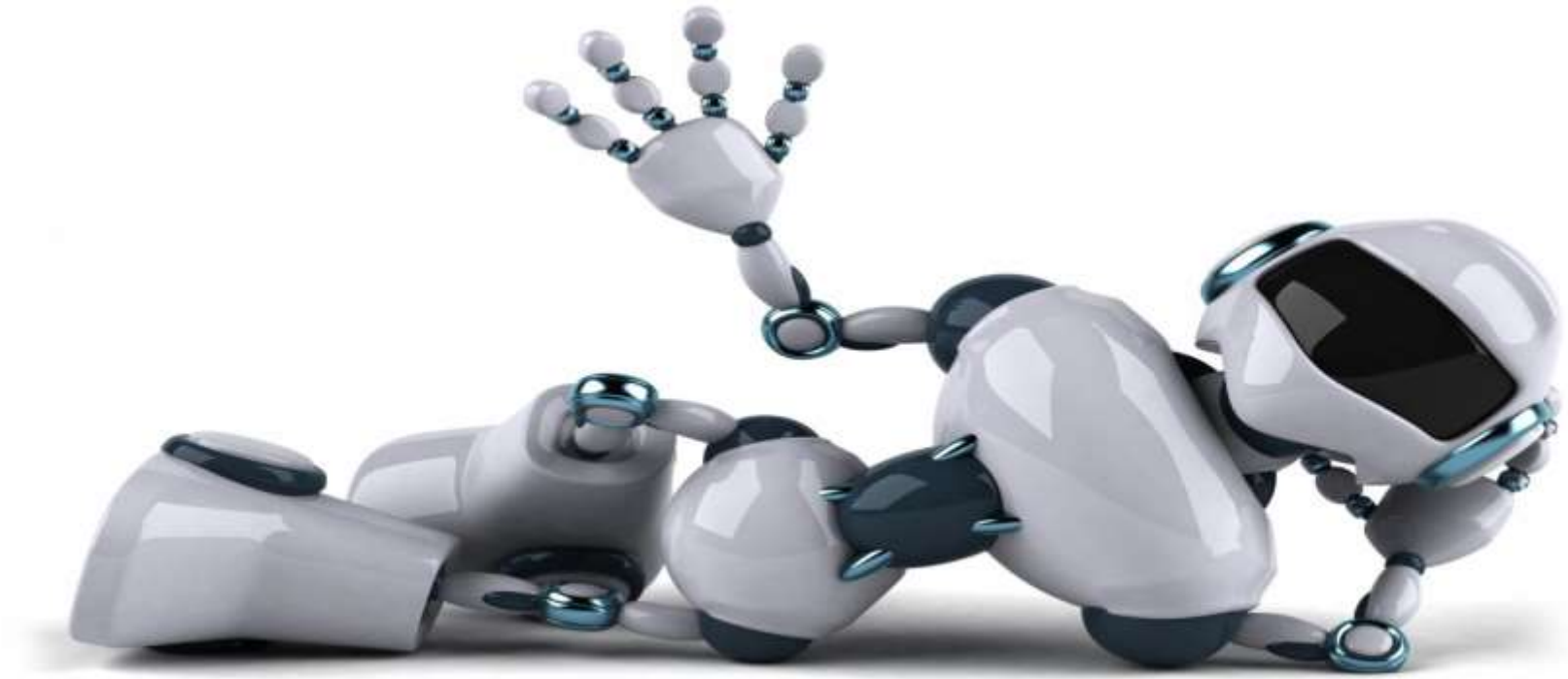
PICOZEN EDU

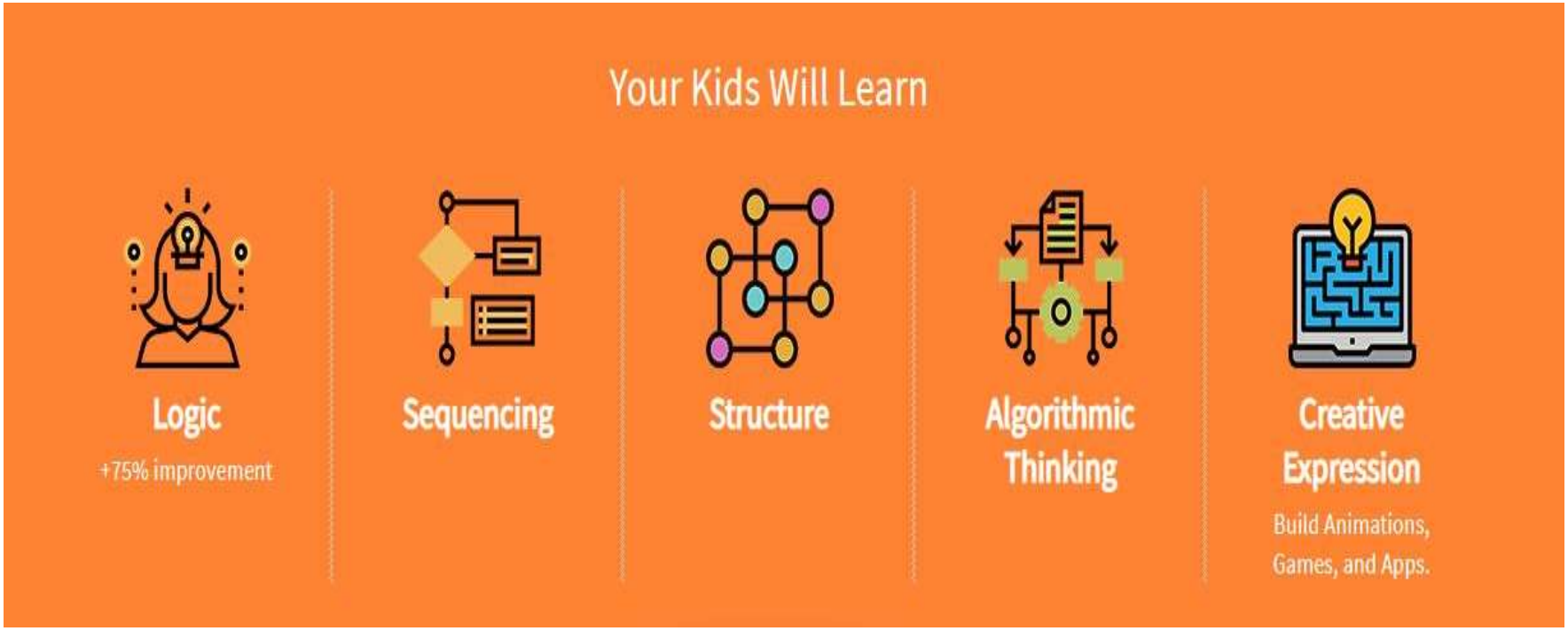
A step closer to technology



Kripa Ruia
Founder-Mentor

Robotticaa was created to bridge the #1 gap in the global education system.

We have successfully trained 3000+ students across India in the field of Computing, Robotics, IoT in a span of 5 years.



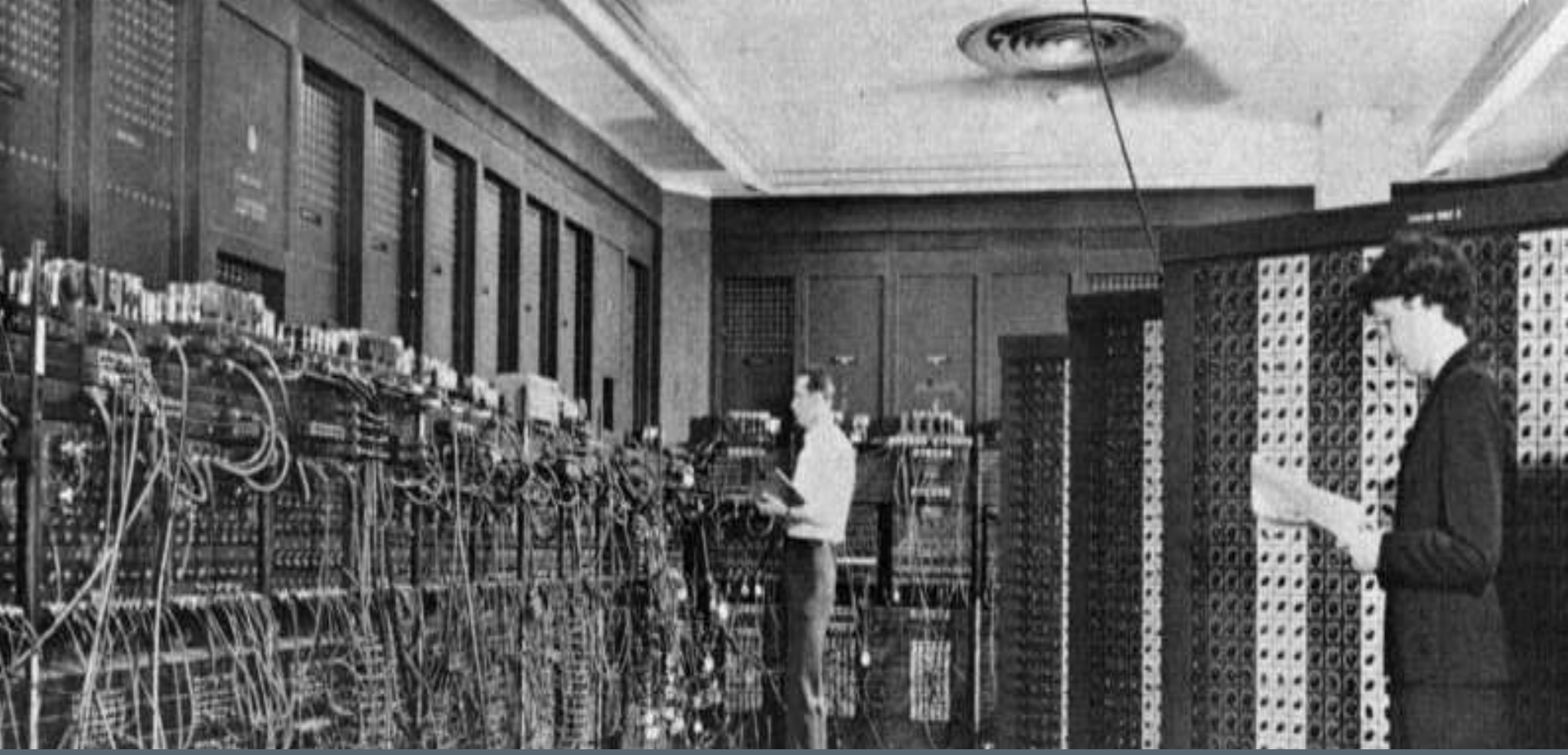
Computers and software are changing everything...

Some may think:

Computer science is just about learning technology

~~Computer science is just about learning technology~~

Computer science is about logic, problem solving, and creativity



First computer: 1943

First computer: 1943

First computer program: 1843

Did you know that FIRST CODE was written by a woman?

INDIAN WOMEN IN STEM LEADING AN EXAMPLE

[Seetha Coleman-Kammula](#) [Mallika Srinivasan](#) [Nandini Harinath](#)
[Dr. Indira Hinduja](#) [Swati Piramal](#) [Tessy Thomas](#)
[Kiran Mazumdar-Shaw](#) [Sudha Murthy](#)

What is computer programming?

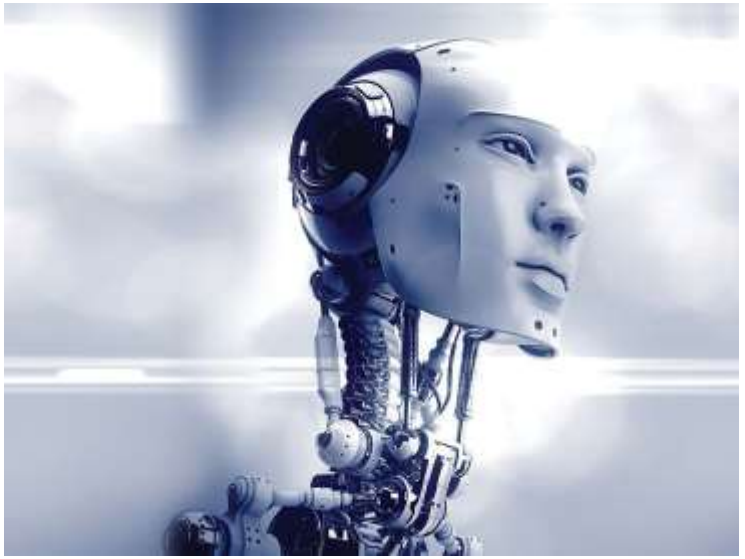
- A set of commands a computer understands – like a recipe.

- Computer programs can help cure diseases; drive cars; create video games; make animated movies/graphics; build websites and apps; and much more.

- Basic coding concepts are used by most every program and most every programmer.

What is Robot?

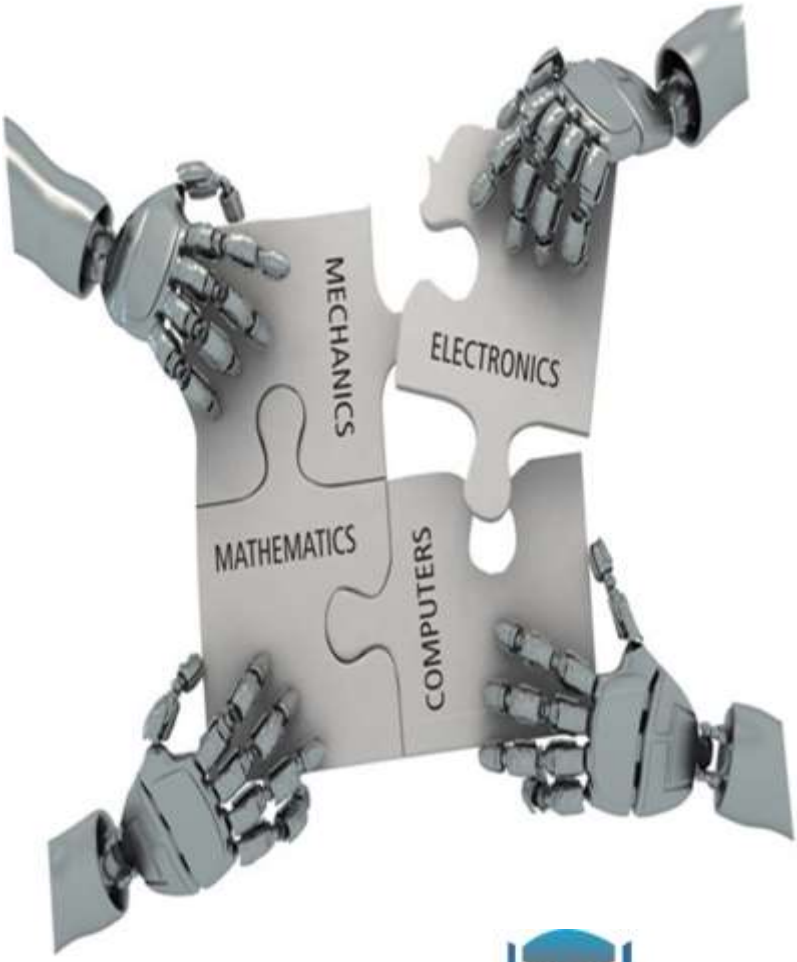
- A Robot is a programmable mechanical device that can perform tasks and interact with its environment, without the aid of human interaction.



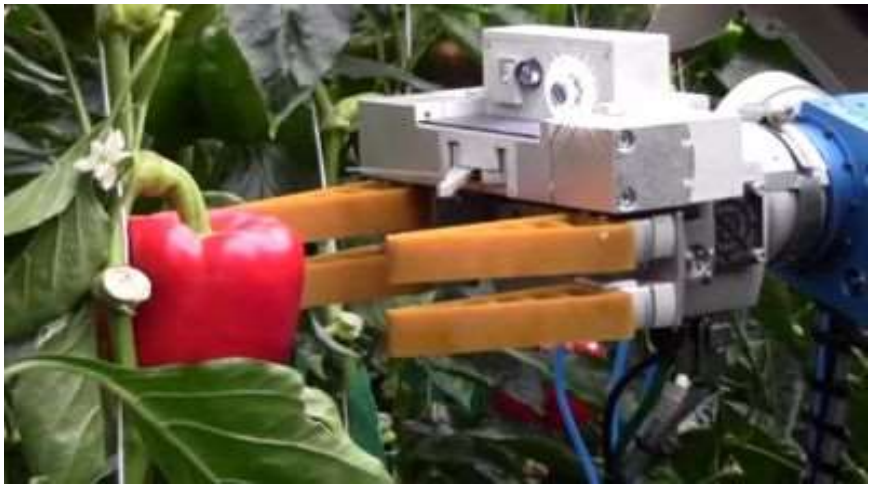
ROBOMICRA

What is Robotics?

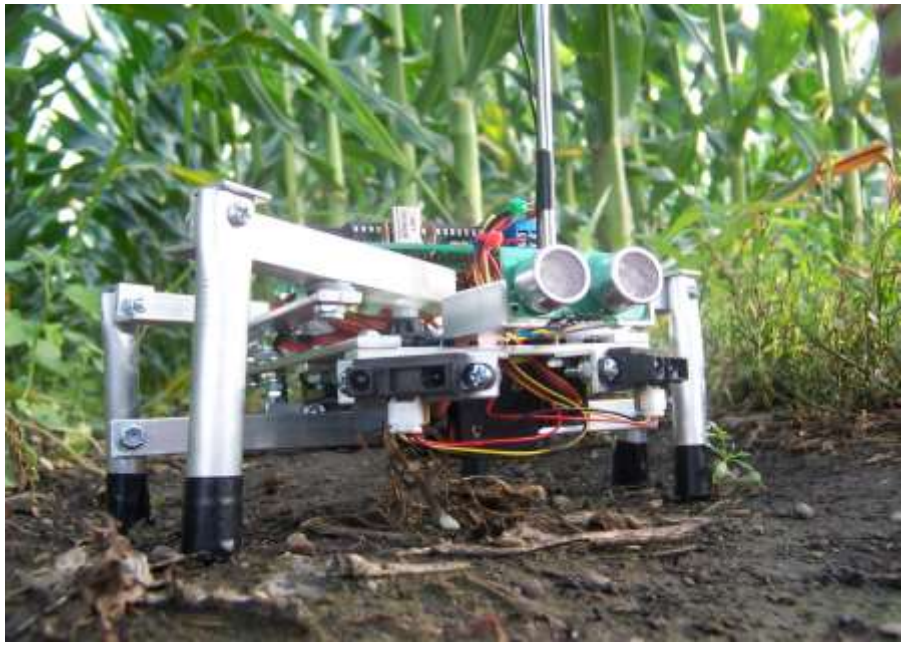
- **Robotics** is the interdisciplinary branch of engineering and science that includes mechanical engineering, electronics engineering and computer science.
- Robotics deals with the design, construction, operation, and use of robots.



Industrial Robots



Surveillance Robots



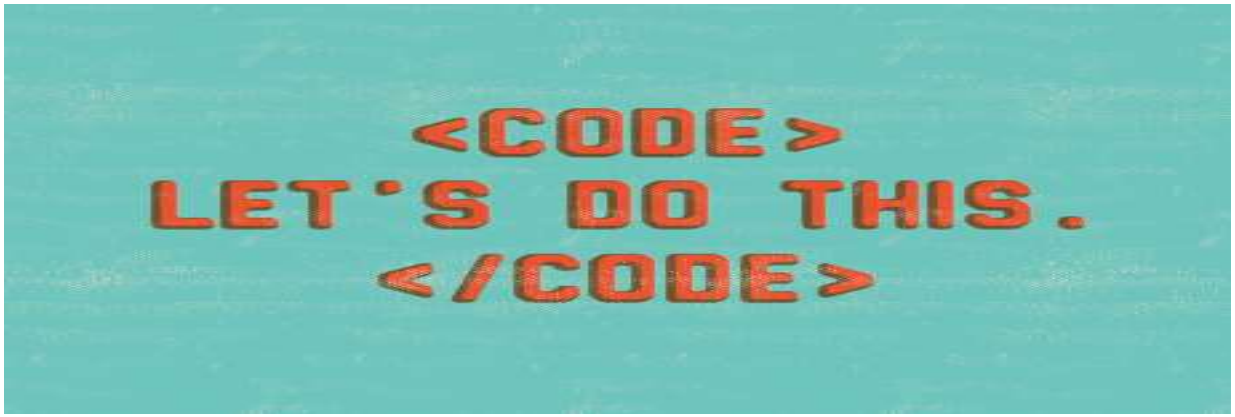
Robots for Medicine

ROBOMICAA

Robots for Research

ROBOMICAA

Coding Tips & hacks

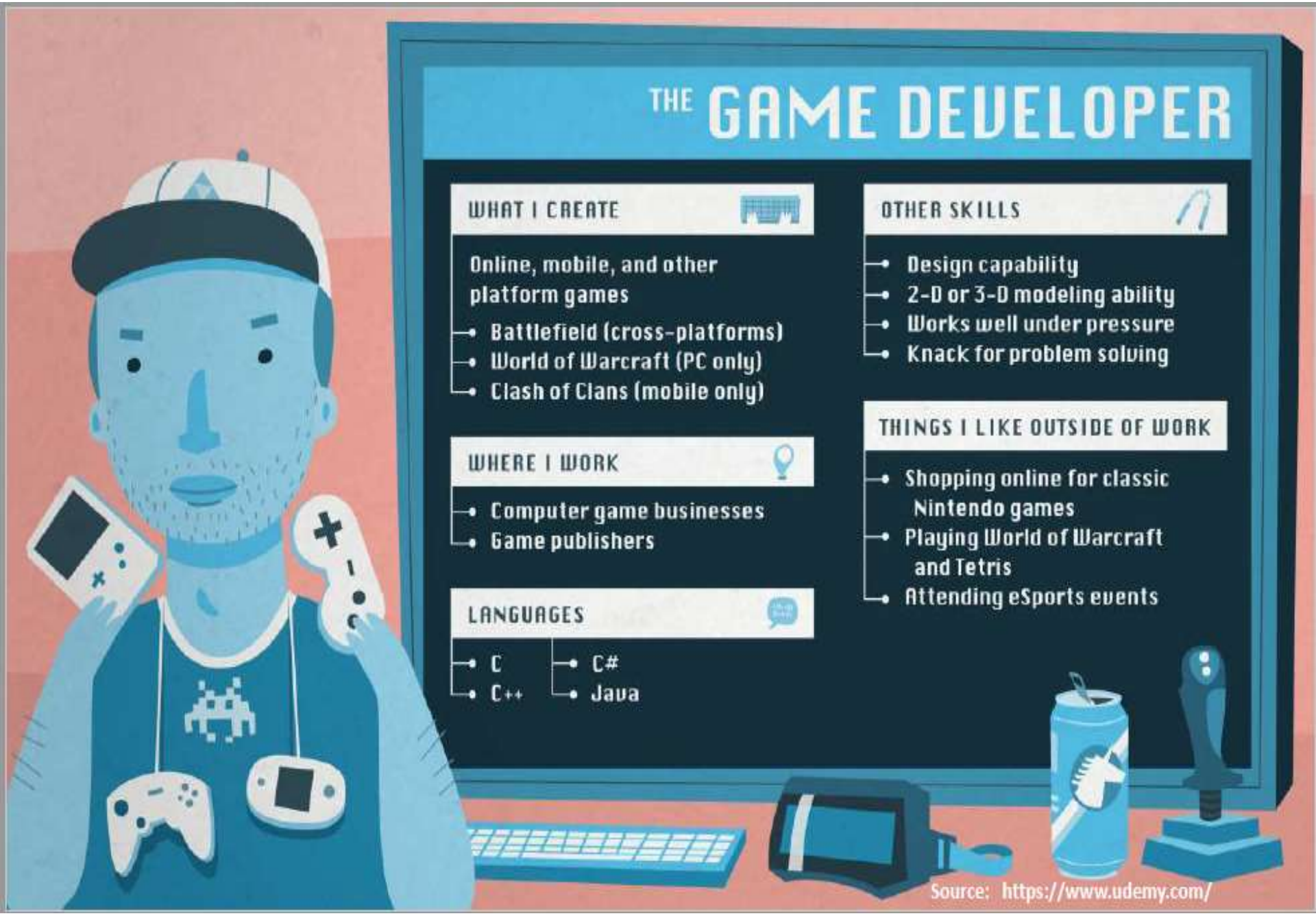


- Think and work about the problem in hand.
- Draw a flow chart or write an algorithm.
- Fine tune the basics
- Don’t get disappointed by bugs
- Use online forums for support

Top 3 reasons on why to code

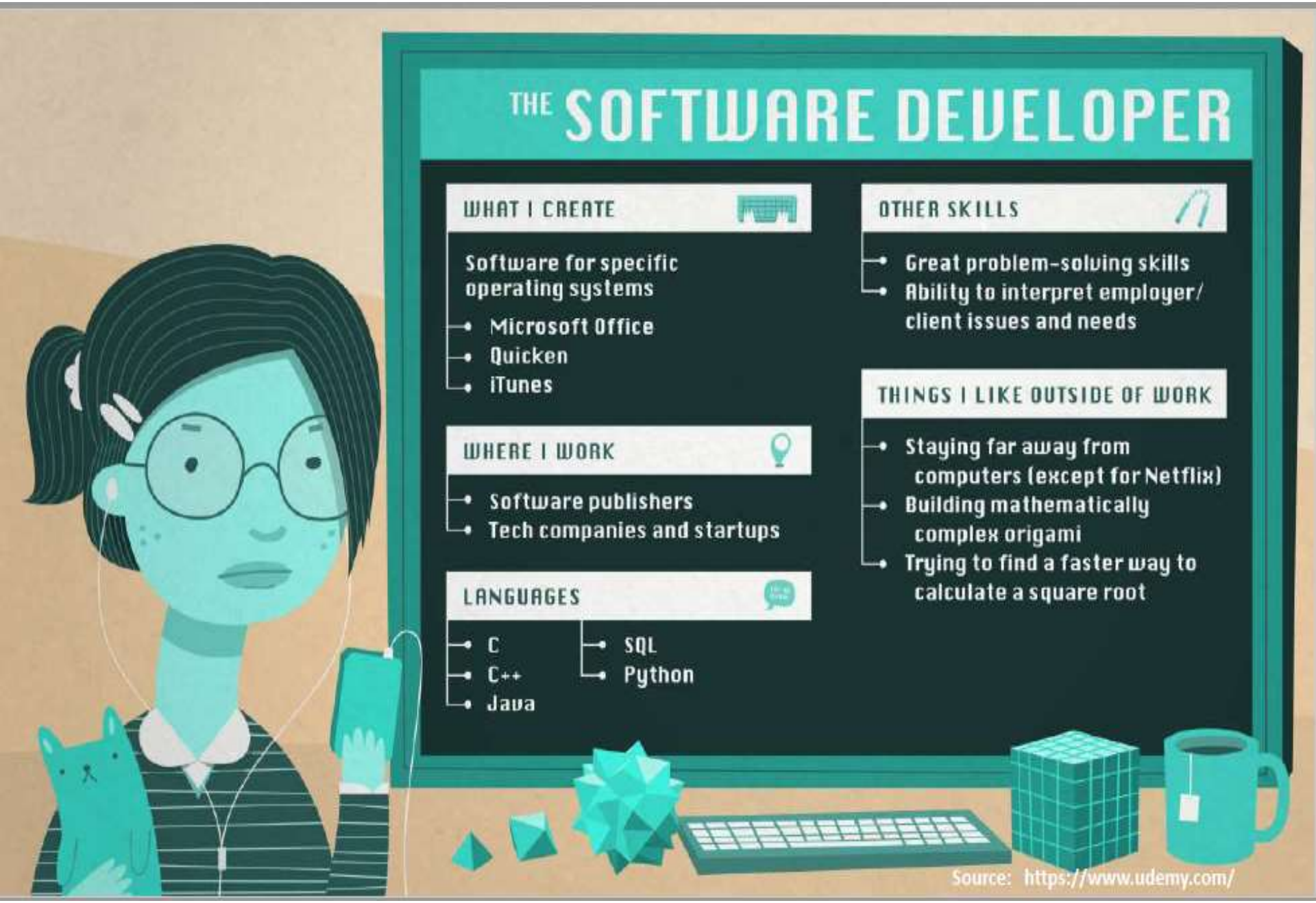
- Coding is the Most Important Job Skill of Future
- Coding enhances problem-solving and critical thinking skills.
- Coding allows ideas to take shape

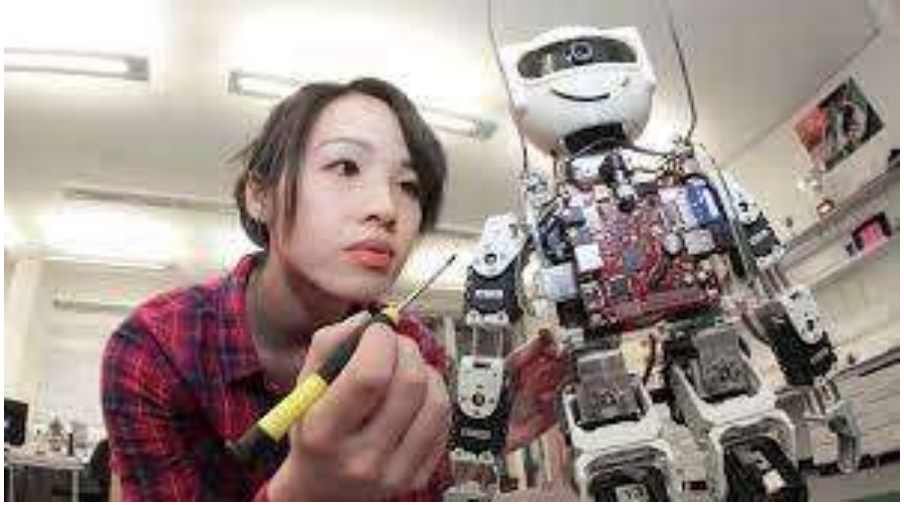
What do you want to make?


THE GAME DEVELOPER
WHAT I CREATE
Online, mobile, and other platform games
Battlefield (cross-platforms)
World of Warcraft (PC only)
Clash of Clans (mobile only)
WHERE I WORK
Computer game businesses
Game publishers
LANGUAGES
C
C++
C#
Java
OTHER SKILLS
Design capability
2-D or 3-D modeling ability
Works well under pressure
Knack for problem solving
THINGS I LIKE OUTSIDE OF WORK
Shopping online for classic Nintendo games
Playing World of Warcraft and Tetris
Attending eSports events
Source: https://www.udemy.com/

THE MOBILE APP DEVELOPER
WHAT I CREATE
Apps for mobile devices, primarily iPhone and Android.
Banking apps
Netflix mobile app (music/video streaming apps)
Social media mobile apps (Facebook, Instagram, etc.)
News apps
WHERE I WORK
Freelance
Tech companies and startups
Software development firms
Agencies
LANGUAGES
Objective C
Java
OTHER SKILLS
Interest in various technologies and devices
Proficient in software architecture
THINGS I LIKE OUTSIDE OF WORK
Playing Clash of Clans
Lengthily debating who reigns supreme: Android or iPhone
Reading up on new programming languages
Source: https://www.udemy.com/

THE WEB DEVELOPER
WHAT I CREATE
Applications that run entirely in-browser
Websites
E-commerce websites (Amazon, Ebay, Etsy, etc.)
Social media websites
Educational websites (Wikipedia, Dictionary.com, etc.)
Search engines
LANGUAGES
C#
Java
PHP
SQL
Ruby
Python
JavaScript
WHERE I WORK
Various corporations
Government organizations
Freelance
Tech companies and startups
Software development firms
Agencies
OTHER SKILLS
Proficient in data utilization
Web server knowledge
THINGS I LIKE OUTSIDE OF WORK
Stocking up on candy and Mtn. Dew for the office
Optimizing life's inefficiencies
reddit.com/r/programming
THERE'S NO PLACE LIKE
127.0.0.1
Source: https://www.udemy.com/


THE SOFTWARE DEVELOPER
WHAT I CREATE
Software for specific operating systems
Microsoft Office
Quicken
iTunes
WHERE I WORK
Software publishers
Tech companies and startups
LANGUAGES
C
C++
Java
SQL
Python
OTHER SKILLS
Great problem-solving skills
Ability to interpret employer/client issues and needs
THINGS I LIKE OUTSIDE OF WORK
Staying far away from computers (except for Netflix)
Building mathematically complex origami
Trying to find a faster way to calculate a square root
Source: https://www.udemy.com/



Problem solving

Listening and speaking (communication)

Creativity

Critical and analytical thinking

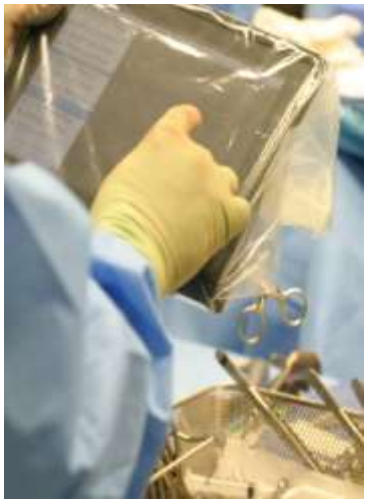
Leadership

Teamwork

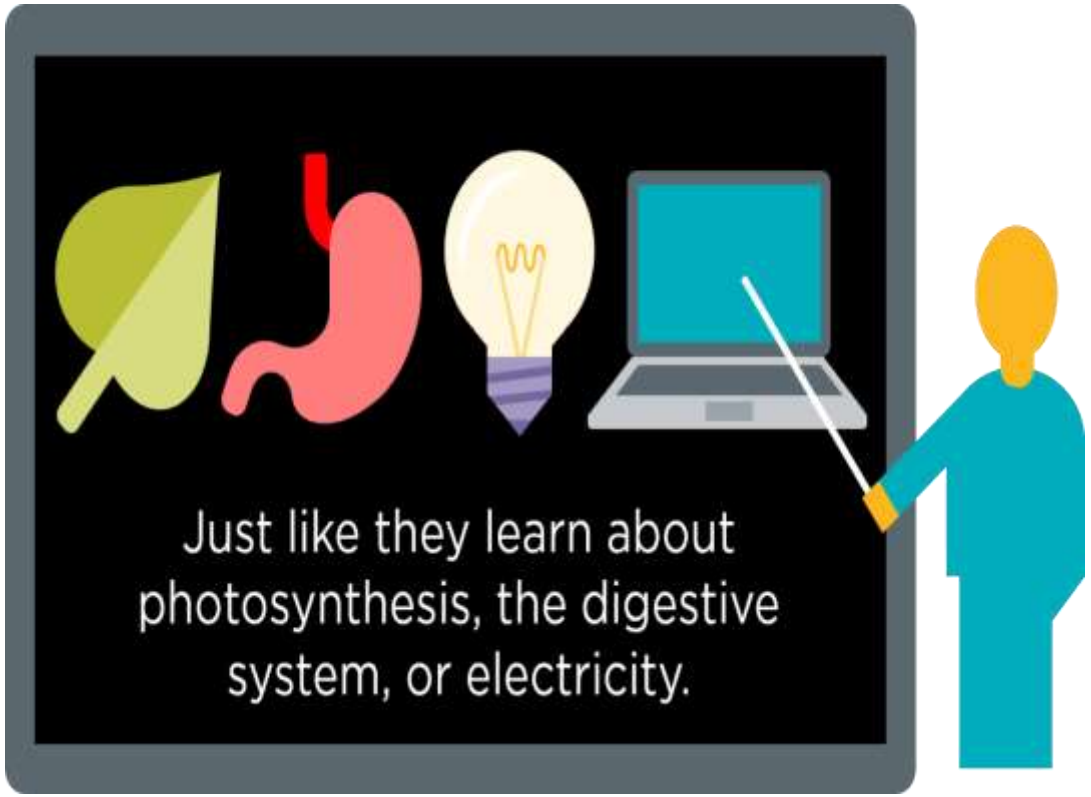
Staying positive (resilience)

Adaptability

Technology affects ***every*** field



Every 21st century student should have a chance to learn about algorithms, how to make **apps**, and how the **internet** works.



Why should Coding be taught from school level?

PicoZEn Edu

Coding | Robotics | Microcontrollers

Join us to be head-first with technology!

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