

لايپھلەش ۋە سىستېما Design and System

دوكتور ياسن مەمەتجان

2023-06-11

مەشگۈتەك تەربىيەلەش مەركىزى

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پىلان

Microbit•

• قاتتىق دېتال كۆرسىتىش

• ئۇقۇغۇچى ياسايدىغان نەرسىلەر

Kahoot... •

What is AI Systems?

؟ نه رده

؟ نيمه

نستېمالچي) نيمه

نالم) نيمشقا

نه جنبر) قانداق

Medical

Medical instrumentation for monitoring and control (reference = dosage); artificial limbs (prosthesis; reference = limb position).

Home appliances

Home heating, refrigeration, and air conditioning via thermostatic control; electronic sensing and control in clothes dryers; humidity controllers; temperature control of ovens (references = desired temperature, humidity).

Power/energy

Power system control and planning; feedback instrumentation in oil recovery; optimal control of windmill blade and solar panel surfaces; optimal power distribution via power factor control; power electronics for dc-dc conversion, battery chargers, motor controls (references = power level, optimization criteria).

Transportation

Control of roadway vehicle traffic flows using sensors; automatic speed control devices on automobiles; propulsion control in rail transit systems; building elevators and escalators (references = vehicle flow rate, speed, position and speed together).

Manufacturing

Sensor-equipped robots for cutting, drilling die casting, forging, welding, packaging, and assembling; chemical process control; tension control windup processes in textile mills; conveyor speed control with optical pyrometer sensing in hot steel rolling mills (references = position–speed profiles).

Aerospace and military

Missile guidance and control; automatic piloting; spacecraft control; tracking systems; nuclear submarine navigation and control; fire-control systems (references = position and attitude).

سز مه قسدبگنز نمه

سز نمه قلفوگنز بار

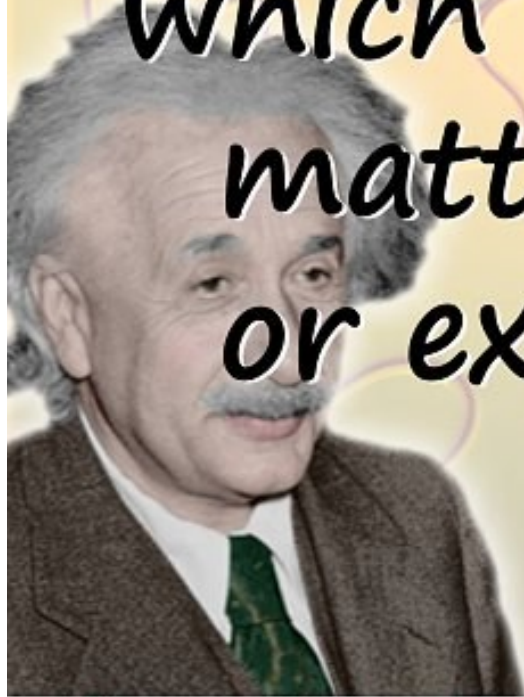
مه قسدبگنزگه قانداق پتسبز

Babson's undergraduate school



The formulation of a problem is often more essential than its solution, which may be merely a matter of mathematical or experimental skills.

Albert Einstein

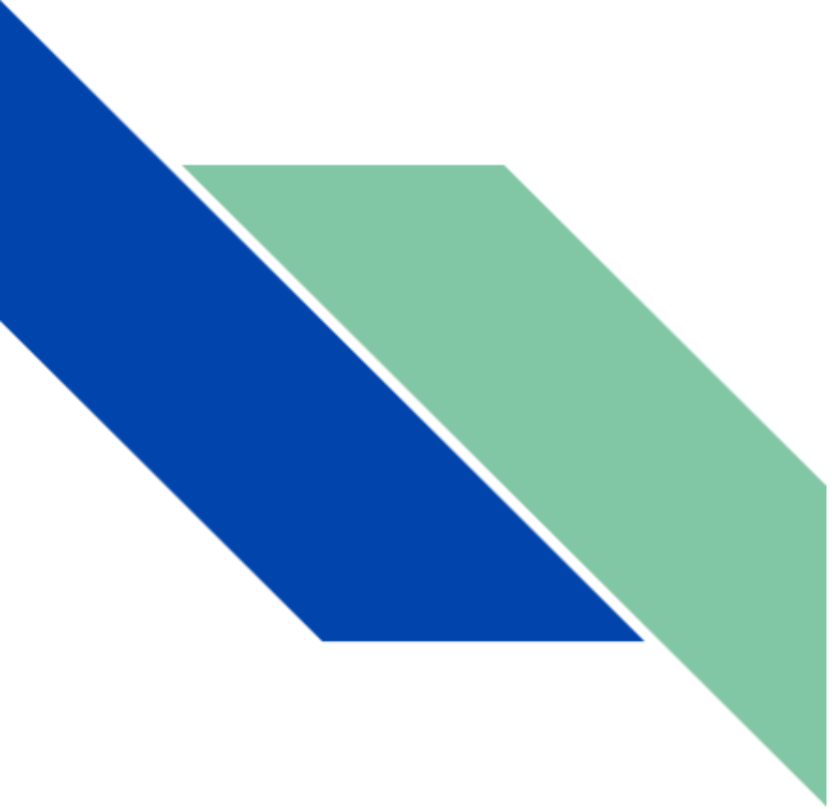


مەسىللەر : سز كۆرسەتمىگە نەگە شەمسىگىز نىمە بولىدۇ



مەسىللەر 2 : سىز كۆرسەتمىگە نەگە شىمسىگىز نىمە بولىدۇ



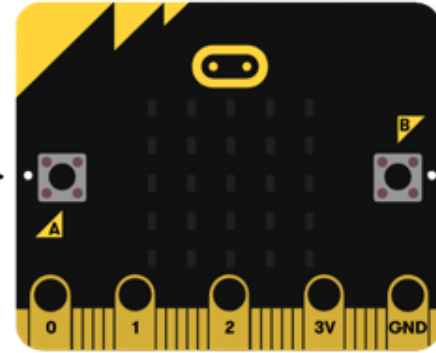


Micro Bit




مايكرو بيت

What is a Microbit? 🤔

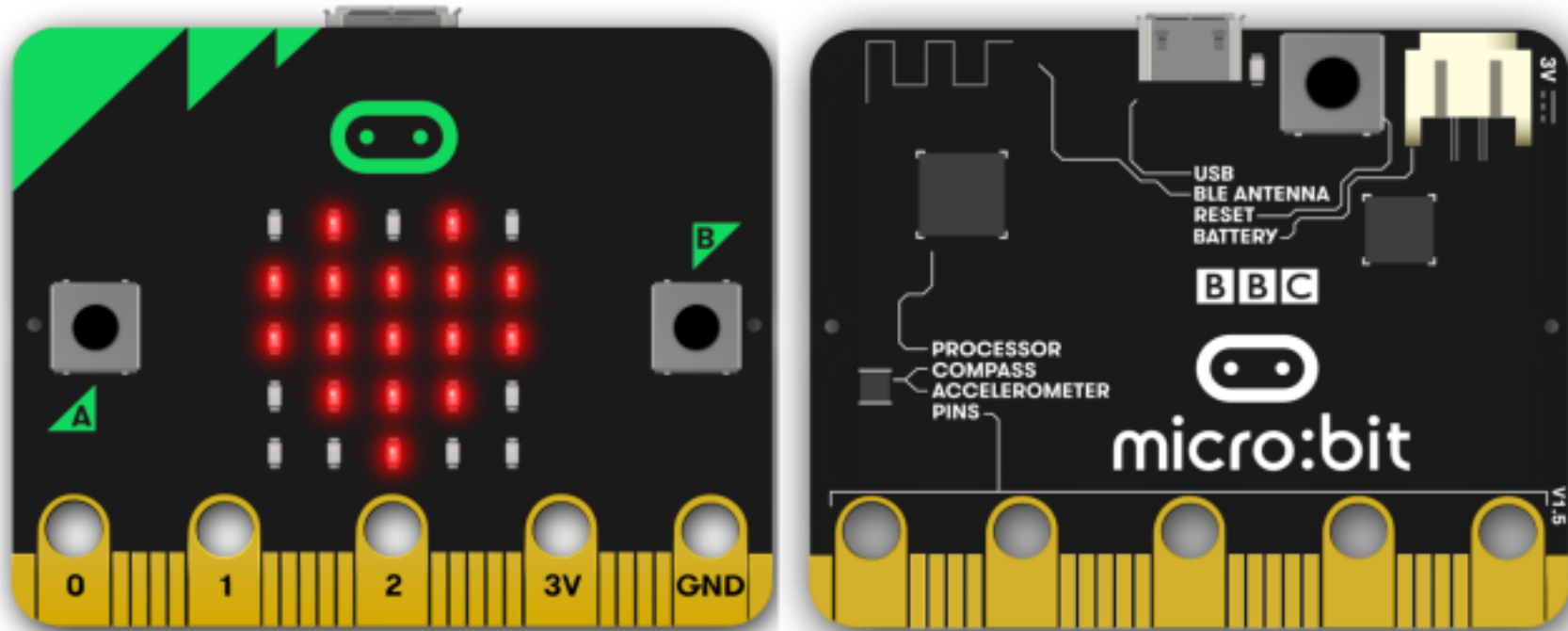
How a micro bit looks like ----->



Micro bit is:


- Is created by **B B C**
- Made in 2019
- Made to encourage children to join software for computers
- It uses  , and Blocks
- A bit similar to  but more easier
- Has many sensors

Micro bit parts







Tinkercad Micro Bit

- Has more input and outputs
- Uses blocks and 
- More interactive
- Uses V1.5



Micro Bit Website

- Can connect to microbit it self
- Also uses blocks, , and 
- Has more code blocks
- Can use extensions
- Has tutorials
- Can use V1, V1.5, and V2



Demo Time!

ئۇلانمىلار

- <https://www.codeproject.com/Articles/855501/How-to-build-an-Arduino-powered-smart-home>
- "Ultrasonic Parking Assistant," Arduino Project Hub.
<https://create.arduino.cc/projecthub/>
- ianjennings, "How to build an Arduino powered smart home," CodeProject, Dec. 21, 2014.

Tinkercad World

- Google Search “robotics and tinkercad”
- Google Search “AI and tinkercad”
- monitoring and tinkercad
- Robot, System, Automation, sensors, motors, Engineering

- **Arduino Project Hub**
- <https://projecthub.arduino.cc/trending>

- **Tinkercad Learning Center (ئۆگەنىش مەركىزى)**
- <https://www.tinkercad.com/learn>

مەڭگۈتەك تۈر پائالىيىتى

ئىدىيەدىن پروتوتىپقىچە

لايىھەلەش تېمىلىرىنى تىزىملاش

<https://forms.gle/uEuEbSYz2K4KzvEX7>