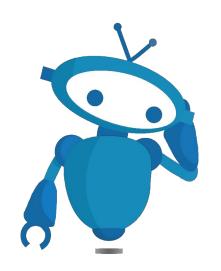
Robotics club presents AUTOMATION



Robotics till now

- Introduction to Robotics
- Arduino
- Sensors
- Bluetooth module
- Robota'19



Download python version 3.7 or less from:

https://www.python.org/downloads/



This module encapsulates the access for the serial port.

To download and install pyserial in python:

- Open command prompt in python/Scripts folder.
- And type the following command pip install pyserial



Some Important functions

- import serial
- Ser=serial.Serial('COM3',9600)
- x = Ser.read()
- line = Ser.readline()
- Ser.open()
- Ser.close()
- Ser.write(b'hello')
- Ser.is_open
- Ser.name

Download it in your android phone and pc directly from google search.

DroidCam turns your Android device into a wireless webcam.



Computer Vision

Computer vision is an interdisciplinary scientific field that deals with how computers can be made to gain high-level understanding from digital images or videos. From the perspective of engineering, it seeks to automate tasks that the human visual system can do.

Sub domains of Computer Vision includes

- Image Processing
- Machine Learning
- Deep Learning
- Artificial Intelligence

Image processing tool/library in python

OpenCV is a library of programming functions mainly aimed at real-time computer vision.



To download and install pyserial in python:

- Open command prompt in python/Scripts folder.
- And type the following command pip install opency-python

Upcoming next in Robotics

- Opency workshop
- Winter Camp
- Vision'20
- Technex'20

