

Robotics Starter Pack

1) Common

1. Calculus + Differential Equations
Link: [3BLUE1BROWN Series S2](#)
2. Linear Algebra
Link: [3BLUE1BROWN Series S1](#)
3. Robotics and Control theory
Link: [IIT Roorkee: Robotics and Control](#)
Link: [Awesome-robotics](#)
Book: [Elements of Robotics](#)

2) RoboCode

1. Linux /Unix commands
Link: <https://youtu.be/BMGixkvJ-6w>
2. Python
Link: [Learn Python - Full Course for Beginners](#)
3. C/C++
Book: [Bjarne Stroustrup: The C++ programming language](#)
Link: [C++ Tutorial for Complete Beginners](#)
4. OpenCV
Link: [OpenCV Course - Full Tutorial with Python](#)
Github Link: <https://github.com/jasmcaus/opencv-course>

Framework:

5. ROS
Link: <http://wiki.ros.org/Documentation>
Github link: <https://github.com/Flying-And-Robotics-Club-NITK/ROS-KEP>

3) RoboTronix

1. Signals and Systems
Link: [Fourier Series](#)
Book: [Signals and Systems by Alan V. Oppenheim](#)
2. Control Systems
Link: [Control of Mobile Robots by Georgia Tech](#)
Book: [Control Systems Engineering by Norman Nise](#)
3. Arduino
Link: [Coursera IOT Specialization Course 2](#)
Link: [Arduino Documentation](#)

4) RoboTorque

1. Fusion360
Link: [Autodesk Coursera Specialization](#)
2. SolidWorks
Link: [SolidWorks Tutorials](#)
Book: [Mastering SolidWorks by Ibrahim Zeid](#)
3. Blender
Link: [Blender Tutorials](#)

5) AeroWing

1. Aerodynamics
Link: [Introduction to Aerodynamics edX](#)
Book: [Fundamentals of Aerodynamics by John D. Anderson](#)
2. MATLAB
Link: [MATLAB Onramp](#)
Link: [MATLAB Documentation](#)
3. ANSYS
Link: [ANSYS Tutorials](#)