**Material for Website**

# Quadcopter Basics

## Soldering : <https://youtu.be/lseZwkkQ070>

## Building the quad : <https://youtu.be/GFNGUDT_9_c?list=WL>

## Setting up the quad : <https://youtu.be/rHa0eu40Fck>

## PID theory : <https://youtu.be/LtocGBngSrA>

## Tuning PID : <https://youtu.be/awdSkR6b4EY>

## Flying Lessons : <https://www.youtube.com/playlist?list=PLP0PoGwU8OPZEMIODm1tl_sQjClLh2ck3>

## LOS flying (optional)

### Part 1 : <https://youtu.be/RSaPPGa626c>

### Part 2 : <https://youtu.be/wWogA_q4jyg>

### Part 3 : <https://youtu.be/H1KsAir8-oE>

## Charging LiPo batteries : <https://youtu.be/90C_LzpPBwc>

## Charging a Dead LiPo : <https://youtu.be/vusc1BFJX40>

# Quad - Making it Autonomous

## ROS : <http://wiki.ros.org/>

## PX4 : <https://dev.px4.io/en/>

## Interesting videos

### Swarm : <https://youtu.be/ZbkPJPg4kJY>

### Drone Possibilities : <https://youtu.be/RCXGpEmFbOw>

### Quad Dynamics : <https://youtu.be/w2itwFJCgFQ>

### Cooperative Drones : <https://youtu.be/4ErEBkj_3PY>

# Raspberry Pi

## What it is : <https://youtu.be/5jA8wYqQLBU>

## Headless Setup : <https://howtoraspberrypi.com/how-to-raspberry-pi-headless-setup/>

## RPi Tutorials : <https://www.youtube.com/playlist?list=PLsa31gkyINsly6N_usaeHrtDPYnwxO-1Y>