titre	sous titre	prix	capacité	site	Point fort point faible				
ardupilot	ArduCopter	gratuit	full-list-of-flight-modes:	Help:	I diff for point faible				
	APM:Copter		Stabilize Alt Hold	http://ardupilot.org/copter/docs/flight-modes.html#full-list-of-flight-modes					
	(anciennement appelé		Loiter	Source code: Stable release:					
	ArduCopter) est un système de stabilisation	1	RTL (Return-to-Launch) Auto	https://github.com/ArduPilot/ardupilot/releases/tag/Copter-3.5.5					
	de vol et de pilotage automatique		Additional flight modes:	master: https://github.com/ArduPilot/ardupilot/tree/master/ArduCopter					
			Acro AutoTune						
			Brake Circle						
			Drift						
			Guided (and Guided_NoGPS) Land						
			PosHold Sport						
			Throw Follow Me						
			Simple and Super Simple Smart RTL (Return-to-Launch)						
			Avoid_ADSB for ADS-B based avoidance of manned aircraft. Should not be set-up as a pilot selected						
	Copter SITL/MAVProxy Tutorial		j'arrive pas à lancer sim_vehicle.py -j4mapconsole	http://ardupilot.org/dev/docs/copter-sitl-mavproxy-tutorial.html#copter-sitl-mavpr	roxy-tutorial				
	OpenKai + ArduPilot + TX1 + ZED Visual			https://discuss.ardupilot.org/t/copter-3-5-0-has-been-released/19241					
	Odometry (Non-GPS								
hangar	Navigation)	30 euro	« bien développé »	https://autoflight.hangar.com/autopilot/flightschool#modes	https://en.wikipedia.org/wiki/Odometry				
dji			https://developer.dji.com/onboard-sdk/		STM32				
					The flight code runs on flight controller hardware, including the Pixhawk, Qualcomm Snapdragon Flight, and Intel® Aero Ready				
				http://px4.io/ https://github.com/dronecore/DroneCore	to Fly Drone, and connects to various sensors, telemetry radios and other peripherals.				
			The autopilot provides guidance, navigation and control algorithms for autonomous fixed wing,	https://docs.dronecore.io/en/examples/fly_mission.html					
Dronecode:	px4: Flight code Comms		multirotor and VTOL airframes, along with estimators for attitude and position Communications between the flight stack and ground control currently use MAVLink	https://dev.px4.io/en/ https://mavlink.io/en/	je voix pas de Rasberry :(
			3		Supports multiple autopilots: PX4 Pro, ArduPilot or any vehicle				
					that communicates using the MAVLink protocol runs on Windows,				
	QGroundControl :GCS		Ground Control Station	http://ggroundcontrol.com/	OS X, Linux, iOS Works with all vehicle types supported by PX4 Pro and ArduPilot (multi-rotor, fixed-wing, VTOL, etc.)				
			DroneKit-Python 2.x helps you create powerful apps for UAVs . These apps run on a UAV's						
			Companion Computer , and augment the autopilot by performing tasks that are both computationally intensive and require a low-latency link (e.g. computer vision).						
			DroneKit enables developers to write new applications quickly and easily that push the boundaries of autonomous vehicle navigation.		DroneKit-Python				
	DroneKit (API)		DroneKit is compatible with all vehicles using the MAVLink protocol. ROS (Robot Operating System) is a general purpose robotics library that can be used with PX4 for	https://www.dronecode.org/documentation/	DroneKit-Android				
	DOC		offboard control. It uses the MAVROS node to communicate with PX4 running on hardware or using the Gazebo Simulator.		DOS is only afficially avanaged on Linux slatteress				
	ROS Gazebo (Simulation, u	sed with ROS)	the Gazebo Simulator.		ROS is only officially supported on Linux platforms				
http://diydrones.com	mafih chay el site hetha	pourtant yothhor	fhemtech						
Ardupilot Mega (APM)			imu		The ArduPilot Mega (APM) has been discontinued, and as such,	has very limited s	upport and develo	opment.	
			Mathew, right now, the IMU and the autopilot have seperate code bases, since each has its own mi	CFC					
	ardu-imu		Over the next month or two, we'll be releasing ArduPilot Mega, which combines all this on a more po	ow https://code.google.com/archive/p/ardu-imu/	basé sur arduino				
Gluonpilot	fih .exe (pas de code)		open source effort to create an affordable, easy-to-use and easy-to-adapt autopilot. It's an all-in-one IMU-based module	http://www.gluonpilot.com/wiki/OSD#Features	carte moch rasberry				
			Just flash it onto SD card (128MB is well enough)!						
			https://github.com/rpicopter/images						
			- very fast (boot time of around 2-3sec) - small size						
			- Xenomai enabled - stabilization done in 200Hz (limit of MPU6050)						
			- standalone setup (no need for a computer to adjust PIDs) - Support for quadcopters in X configuration of any size						
			- PS3 controller support over bluetooth or USB - Uses stabilized mode to control your quadcopter						
			- Based on MPU6050/MPU9150 gyroscope - Flight log		Rasberry Pi 3 :)))))				
Quadcopter+Raspberry Pi	= PiConter		- Out of box bluetooth connectivity (PAN) for receiving flight logs and accessing the file system (NFS - image created using fully automated process	S { https://github.com/rpicopter/	et ça stabilise bien à ce que je voix ce n'est pas un autopilote				
Quadoopter (Taopoerry 11			For gyro/stabilization most people use MPU6050. It features i2c interface so it can easily be		a de que je voix				
	MPU6050 : imu		connected to you RPi. There is also plenty of code available. Here is my test app for testing it:	https://github.com/rpicopter/MotionSensorExample		mafhemtech wind	ou hal autopilote.	bon fama el comm	nunication:
						PILOT/net.cpp PILOT/net.h			
Quadcopter	git			https://github.com/vjaunet/QUADCOPTER	comment out all the related stuff in the code.	w peu etre came	ra fabatech		
	tuto installation		ServoBlaster This is software for the RaspberryPi, which provides an interface to drive multiple	https://www.raspberrypi.org/forums/viewtopic.php?t=35746&start=100#p771275	related stuff in the code.				
	ServoBlaster		servos via the GPIO pins.						
			my repo : https://github.com/vjaunet/						
	camera		FYI, I could stream data from the Raspicam while the PID controller was working use a Xbee Pro.						
Ouodeents: 1/0	mofile als auto-11-t		à verif	https://withub.com/seupot/OUA-DOORTED-MO	aur ardulas				
Quadcopter_V2 Flybase	mafihech autopilote Raspberry + FlytOS = F	1 300 \$	http://sonyarouje.com/2014/12/20/connec pberry-pi/	https://github.com/vjaunet/OUADCOPTER_V2 https://flytbase.com/product/flytpi/	sur arduino				
Quadcopter - Pistaffing (5e				https://github.com/PiStuffing/Quadcopter					
FlightGear autopilot	simulateur avec autopilo	ote integré en XM	L		AP en xml				

ground control stations					
site pour plus de details	http://ardupilot.org/plane/docs/common-choosing-a-ground-station.html#common-choosing-a-ground-station				
	On desktop there is (Mission Planner, APM Planner 2, MAVProxy, QGroundControl and UgCS. For Tablet/Smartphone there is Tower(DroidPlanner 3), MAVPilot, AndroPilot and SidePilot that can be used to communicate with ArduPilot (i.e. Copter, Plane, Rover, AntennaTracker).				
https://code.google.com/p/owenquad/ for the Android app					

Gazebo Simulator

JMavSim AirSim

X-Plane

