

## MAKING AND DESIGNING A TOY DRONE THROUGH MULTIDISCIPLINARY COLLABORATIVE WORK

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English word	Definition in English	Spanish	Croatian	Slovenian	Polish
drone Drone Drone	an unmanned aircraft or ship guided by remote control or onboard computers any unmanned aircraft or ship that is guided remotely: unmanned craft	dron Dron nave sin piloto	dron dron dron	dron dron dron	dron dron
Accelerometer Aerial Photography	A device that measures the acceleration forces in a certain direction and helpful in maintaining the Drones orientation. These devices are used to stabilize quadcopters. the hobby of capturing images and video while in the air with a camera mounted to your drone.	Acelerómetro Fotografía aérea Altitud sobre el nivel del suelo	brzinomjer zračna fotografija	števec za hitrost zračna fotografija	akcelerometr fotografia lotnicza ponad poziomem terenu (AGL)
AGL	Altitude above ground level	Función de mantenimiento de altura	visina iznad tla, zemlje	Nadmorska višina	funkcja zachowania wysokości
Altitude Hold function	Allows pilot to focus on the camera while the drone hovers steadily in air by itself at a set height. An Onboard barometer is needed to allow Altitude Hold.		funkcija zadržavanja visine	funkcija za vzdrževanje nadmorske višine	
ARF	Almost ready to fly. This is used to describe a Quadcopter or a Drone that you are purchasing and what comes with it. ARF units will many times come without the transmitter, and they may require some assembly	Casi listo para volar	gotovo spreman za let	skoraj pripravljen za polet	
Autopilot	A capability of a drone to conduct a flight without real-time human control. For example, following pre-set GPS coordinates.	Autopilota	automatski pilot	avtomatski pilot/samodejno letenje	autopilot
Autonomous Flight Axis	There are some SUAV's that are managed by internal programming that have instructions on where to fly as guided by an onboard GPS system. This is in opposition to steering mechanisms that are operated by radio control from the ground. One plane of potential flight. Most quadcopters have at least 4 axis controls, with 6+ being preferred.	Vuelo autónomo Eje	samostalno letenje os	samodejno letenje os	oś
Balanced Battery Charger	This is a charger or an internal system for Lipo batteries (or different chemistries) which uses smart technology to charge multiple cells properly that are located within the battery and balances them.	Cargador de batería	punjač baterija	polnilec in stabilizator za LIPO baterije	
Barometric Pressure Sensor	This device used barometric readings to determine the altitude of the aircraft. It can help drones to be able to calculate their height above the ground, along with using combinations of other sensors. ( Enables Altitude Hold feature )	Sensor de la presión barométrica	senzor tlaka, mjerač visine	Merilnik za tlak/kontrola višine	czujnik ciśnienia barometrycznego
Bind	This is the process of making the controller (Transmitter) communicate with the quadcopter or the drone.	Enlazar	povezivanje (daljinskog upravljača sa dronom)	vezava daljinca in drona	
BNF	Bind N Fly. The unit is ready to bind to your transmitter and fly.	Enlazar y volar	poveži i leti (spremno za povezivanje i let)	pripravljeno za vezavo in let	
Brushless Motor	These motors have permanent magnets that rotate around a fixed armature, which eliminates any problems that could be associated with connecting current regarding a moving part. The brushless motors are much more efficient and hardy than brushed motors.	motor???	motor bez četkica	elektro motor	silnik bezszczotkowy
Build	A unit that is build at home as opposed to one that is store bought.	Casera	napravljen kod kuće, ne kupljen	doma narejen/zgrajen	
BVLOS	Beyond visual line of sight.	Fuera de visión	izvan vidnog polja	preko vidnega polja	poza zasięgiem wzroku
Camera gimbal	This is actually the holder of the camera used on drones. It can tilt and swerve, thanks to the servos that power it. The gimbal is strong enough to support even large DSLR cameras.	Cardán de la cámara	kardanski nosač kamere	nastavek/držalo za kamero	uchwyt kamery/aparatu
Commercial Flight	flying a drone for money-making purposes. This is currently restricted by FAA regulations unless you apply for and receive an exemption.	Vuelo comercial	komercijalni let	komercijalni polet	lot komercyjny

Controller	The handheld device that is used by the drone pilot that is used to control the drone and the quadcopter. Controllers are also called transmitters. Here is a picture of a higher end controller.	Controlador	upravljač, kontroler	kontroler/upravljalni daljinec	kontroler
Drone	UAV capable of autonomous flight.	Dron	dron	dron	dron
Electronic Speed Control	ESC. The device for controlling an electric aircraft's motor. It is the connection between the RC receiver and main battery. It usually includes a Battery Elimination Circuit (BEC), which provides the power for the onboard electronics like an autopilot and the RC system.	Control electrónico de velocidad	elektronski nadzor/kontrola brzine	elektronski nadzor hitrosti	regulator obrotów silników trójfazowych
FAA	Federal Aviation Administration A United States Department of Transportation Agency, with the authority to regulate and oversee all aspects of American civil aviation.	AAF	savezna zračna administracija (USA)	zvezna letalska administracija ZDA	Federalna Administracja Lotnictwa Cywilnego (USA)
First Person View	Also known as FPV, a system in which the drone operator views the camera footage from the drone in real-time. The video stream is either viewed through a pair of special goggles, or to a device like a tablet or smartphone.	First Person View	osebni pogled, pogled iz vlastite perspektive	prvo-osebni pogled	z perspektywy pierwszej osoby (FPV)
Firmware	The sketch or software loaded into the microprocessor based products' non-volatile memory. The reason it is referred to as firmware is because it remains in non-volatile memory state even when power is removed. Therefore, it is non-volatile. In the autopilots case, it is an application (App for smart phone users) or program that determines how and what the auto pilot does		ugrađeni program	ROM-podatki v dronu, ki se jih ne more spreminjati	mikrooprogramowanie
FPV	Acronym for "First Person View." This is also known as "Remote Person View" (RPV). The FPV is situated on a camera (such as GoPro) and is mounted on the Quadcopter which allows the operator view exactly what the aerial vehicle is viewing in real time.	FPV: Vista en primera persona	osebni pogled, pogled iz vlastite perspektive (First Person View)	prenos slike v živo	z perspektywy pierwszej osoby (FPV)
Flight Control System	This is a network of controls that is interconnected and allows the pilot to fly the quadcopter or any other multi-rotor airborne vehicle.	Sistema de control de vuelo	sustav za kontrolu leta	sistem za krmarjenje leta	system kontroli lotu
Fly Away	Unintended flight outside of operational boundaries (altitude/airspeed/lateral) as the result of a failure of the control element or onboard systems, or both.	Volar fuera de control	gubitak kontrole, let izvan zadanog područja	izguba kontrole	
Fly-Away Protection System	A system that will return the UAV safely to the surface, or keep it within the intended operational area, when the link between the pilot and the UAV is lost.	Sistema de protección para vuelo fuera de control	zaštita od gubitka kontrole	zaštita pred izgubo kontrole	
Gimbal	This is a specialized mount for a camera, giving it the ability to swerve and tilt by utilizing servos. This gives the camera the capability of staying in one position, regardless of the movement of the drone. This allows for a very smooth and stabilized looking image.	Cardán	kardanski nosač kamere	kardansko obešenje	
GoPro	Top name in high-definition camcorders, often used in extreme-action video photography. It is an HD-quality, waterproof video recording device that is compact, lightweight, rugged. With attachments they can be wearable or mounted on vehicles.	GoPro	GoPro kamera	Go-pro kamera	kamerka GoPro
GPS	Global Positioning System that is used to track the position of an object in relation to the global spatial plane, track movement, or cause an airborne vehicle such as a quadcopter to hold position, such as the advanced DJI Phantom.	GPS	GPS/globalni sustav za određivanje položaja	GPS/Globalni Sistem za določanje Položaja	
Ground Control Station	GCS. This software runs on the ground on a computer. It receives telemetry information via an airborne UAV. It displays its status and progress. This frequently include sensor and video data. It also can be used for transmitting in-flight commands up to the UAV in the air.	Estación de control de tierra	zemaljska kontrola (na računalu)	zemeljska kontrola/kontrolni računalnik	system kontroli naziemnej
Gyroscope	A gyroscope or gyro, measures the rate of rotation of the UAV and helps keep the craft balanced correctly with respect to yaw, pitch and roll. Helps to maintain the orientation of the quadcopter while in flight. In most cases, quadcopters use a triple-axis gyroscope.	Giroscopio	žiroskop	giroskop	żyroskop
Hexicopter	A multi-rotor aircraft having six rotors in which the beauty and advantage of the hexicopter is that it can lose any single engine and still maintain control to land.	Hexicóptero	dron sa 6 motora	dron z 6.-mi motorji/hexikopter	

Hobby Grade	Better than toy grade, these quads can offer a good reliability and operation at a reasonable price tag. The Syma X8G, JJRC H25G and Parrot AR.Drone 2.0 are a few examples of hobby grade quads.	Nivel de aficionado	hobi dron, poluprofesionalni	srednji plačniški razred/pol-profesionalna oprema	
Headless Mode	regardless of the orientation of the craft, the way the front of the craft is pointed, it will follow your stick movements.	Modo sin cabeza?	mehaničko upravljanje	mehansko upravljanje/samostojno letenje brez rač. pomoči	
IMU	The Inertial Measurement Unit is a controller which combines an accelerometer and a gyro, with the purpose of helping with the orientation and stabilization of a quad.	Unidad de medida de inercia?		notranji sistem merjenja	
Inertial Navigation System	INS. This is a means of calculating position that is based on the initial GPS reading. This is followed by speed and motion sensor readings that use dead reckoning. This is useful when the GPS has lots its signal temporarily or is not available.	Sistema de navegación de inercia		notranji navigacijski sistem	
IOC	intelligent orientation control – Usually, the forward direction of a flying multi-rotor is the same as the nose direction. By using Intelligent Orientation Control (IOC), wherever the nose points, the forward direction has nothing to do with nose direction.	Control de orientación inteligente	pametni orijentacijski sustav	pametni orientacijski sistem	
Landing gear		Tren de aterrizaje	oprema za slijetanje	pristajalne noge	
Line of Sight	Also known as LOS, refers to being able to see your drone from your operating position with your naked eye. Your drone should always be within your line of sight.	Línea de visión	vidno polje	vidno polje	
LiPo	Short for Lithium Polymer, LiPo is the type of battery favored by most drone manufacturers due to its low weight and maximized charge capacity and power. Although LiPos are safe, be aware overcharging the battery or breaking the flexible polymer case could result in fire.	lipo??	litij polimer (LiPo) baterija	Litijev Polimer-LiPo	baterija litowo-polimerowa
Lithium Polymer battery	LiPo or LiPoly. The Lithium Ion battery (Li Ion) is a variant. Lighter weight and more power is offered by this battery chemistry compared to NiCad and NiMh batteries.	Batería de polímero de litio	LiPo baterija	LiPo Baterija	
Mobius Camera	Popular lightweight camera model which can shoot video in HD and take intervalometer photos. It was developed mainly to be used with RC drones.	Cámara mobius	vrsta lake kamere	zelo lahka kamera	
Mod: modification	Drone addicts modify their machines to integrate new functions or cool features. These changes are usually called mods.	Modificación	modifikacija	modifikacija	
Multicopter	A generic name for a drone with multiple propellers. Aerial drone with multiple horizontal propellers, also known as rotors. Depending on the number of rotors, we can have tricopters, quadcopters, hexacopters, octocopters and so on.	Multicóptero	multikopter, dron s više rotora	več-rotorski dron	
Multi-rotor copters	are referred to by many names, which include: Drone, Quadcopter, Quadricopter or Quadrocopter	Cópteros multi rotor	višerotorski dron	več-rotorski dron	
NAZA	is a flight controller that is used on the DJI Phantom Drones and it contains the main control chip, an accelerometer, a gyroscope, and a barometric altimeter.	NAZA	NAZA, vrsta upravljača	NAZA	
No Fly Zone	Areas where flying a drone is restricted by government regulations. Areas where a drone could interfere with an airplane or record sensitive information make up most of these areas.	Área de vuelo prohibido	zona zabranjenog leta	območje prepovedanega letenja	
Octocopter	A drone with 8 horizontal propellers or rotors.	Octocóptero	8-rotorski dron	8-rotorski dron/kopter	
OSD	Abbreviation for "On Screen Display".	OSD	zaslonski način	zaslonski način	
Payload	The amount of additional weight a drone is able to lift in addition to its own weight and batteries. If you attach a camera and gimbal to your drone, the combined weight is the payload.	Carga	dodatni teret	dodatna teža	
Pitch	A measure which describes the flight angle along one axis, usually measured from level in case of aerial vehicles.	Cabeceo	nagib	naklon	

Pre Flight Planning	The activities conducted by the pilot and flight crew prior to takeoff to ensure that the flight will be conducted safely and in accordance with all applicable standards and regulations. The activity includes, but is not limited to, such things as checking weather, route of flight, airspace, equipment configuration, support personnel, terrain and communications requirements.	Planificación pre vuelo	planiranje prije leta	načrtovanje pred letom	
Power Distribution Board	is the PDB and is a board that is used on the multicopters to help distribute the power to each of the motors to provide proper stabilization of the unit.	Panel de distribución de energía	ploča za raspodjelu el. energije	plošča za porazdelitev električne energije	
Quadcopter	UAV that typically has 4 propellers, situated in a square formation for smooth and precise flight.	Quadcóptero	dron sa 4 propelera	kvadrokopter/dron z štirimi propelerji	
Radio Controller	wireless handheld device used to control flight of the drone.	Controlador de radio	radio upravljač	radijski daljinec	zdalnie sterowany
R/C	Synonym for Radio Controlled.	Controlado por radio	radio kontrola	radijsko kontroliran	zdalnie sterowany
RC Roll	Shorter way of writing "Radio Controlled – it refers to control of a drone via radio waves. Roll is the side to side tilt of the drone.	RC	radio kontrola	radijsko kontroliran	zdalnie sterowany
RTF	Ready to Fly – This means the drone is sold with everything needed in the pack. All you need to do is put it together, add batteries and you are ready to use it. It is possible you may need to buy the batteries separately. This fact is usually mentioned on the box.	Listo para volar	spreman za let	pripravljen za let	gotowy do lotu
Sense And Avoid	The capability of a UAS to remain well clear from and avoid collisions with other airborne traffic. Sense and Avoid provides the functions of self-separation and collision avoidance.		sustav za uočavanje i izbjegavanje sudara	senzor in sistem za izogibanje ovir	
Servo Stick sUAS	A shorter name for servomotor or servomechanism. Aerial vehicles use servomotors for various functions such as pan cameras and wing flaps adjustments which can be controlled from the ground. is short for – small Unmanned Aircraft System	Servo pequeño dron	servomotor mali dron	servo-motor dron	
Throttle	Control that influences the RPM or the speed of electric motors.	elevarse en sentido vertical	kontrola brazine	plin	
Toy grade	The basic level of quadcopters, usually priced under \$100, using relatively cheap components. Not very reliable, toy grade quads can still offer a wide variety of functions. They can be an excellent way to start for beginners, as they can still provide a lot of fun, despite the lack of reliability. when you are ready, you can move on to a hobby grade machine or even or more advanced ones, but you have to be ready to pay a higher price.	Nivel de juguete	osnovni, neprofesionalni dron, igračka	neprofesionalna klasa	
TX Thrust	Short for transmitter or transmit	Transmitir Empuje	odašiljač uzgon	oddajnik vzgon	
UAV	unmanned aerial vehicle. A device that can propel itself through the air without a pilot onboard. Drones and quadcopters are UAVs.	Dron: vehículo aéreo no tripulado	dron	dron	samolot bezzalogowy
Ultrasonic sensor	A sensor that uses the ultra sound wavelength to communicate with a transmitter. In aerial vehicles, ultrasonic sensors are used for calculating the distance to the ground by bouncing sound waves back and forth. They don't work further than a few meters from the ground.	Sensor ultrasónico	ultrazvučni senzor	ultra-zvočni senzor	
Visual line of sight	is the term that is going to control how the pilot can see the aircraft from the ground without the use of artificial vision.	Línea de visión	vidno polje	vidno polje	
Visual Observer	A crew member who assists the UAS pilot in the duties associated with collision avoidance. This includes, but is not limited to, avoidance of other traffic, airborne objects, clouds, obstructions, and terrain. Most associated with FPV flying.	Observador visual	promatrač, pomagač pilota	opazovalec/asistent pri opazovanju vidnega polja	
VLOS	Abbreviation for Visual Line of Sight.	Línea de visión	vidno polje	vidno polje	w zasięgu wzroku

Waypoint	A set of coordinates which define a point in space. Waypoints are useful in designing various autonomous missions for quadcopters. Mapping out would be impossible without a possibility to define these physical locations.	Waypoint/coordenadas	koordinate	zbirna točka/smerna točka	punkt odniesienia/punkt nawigacyjny
WiFi FPV	Mostly found on cheaper drones, usually performed by a downloaded APP. which you connect to in order to fetch the live feed. The signal is compatible with most Android/iOS smartphones and tablets.	Wifi FPV	prijenos slike preko WiFi	prenos slike preko wifi omrežja	
YAW English word	The describes the quadcopter rotation around its center axis on a level plane. Definition in English	rotación/viraje Spanish	rotacija oko centralne osi Croatian	rotacija okoli svoje osi Slovenian	