

Micro Drone 3.0

The Micro Drone 3.0 is Small,
Maneuverable and Customizable.
The Micro Drone 3.0 is Ideal for
Expert or a First-timer Pilot!



Micro Drone 3.0



Extreme Fliers' Micro Drone 3.0 Captures \$1.4M on Indiegogo; UK Tech Startup Extends Campaign.



July 20, 2015 @ 2:25 pm By Samantha Hurst

Last month, UK-technology company Extreme Fliers launched a crowdfunding campaign on Indiegogo to raise \$75,000 for its new product, the Micro Drone 3.0. The device was built to be nothing like any other drone by combining expandable modular technology, sensor-assisted flying and a micro-gimbal for live streaming video. It is considered the first fully customizable personal drone.

Micro Drone 3.0 1Vernon Kerswell, founder of Extreme Fliers and maker of the Micro Drone previously stated:

“The step up in technology and features we have packed into Micro Drone 3.0 offers users a taste of things you would find in a high end device. We want Micro Drone 3.0 to be usable by anyone, whether first timers or an adaptable drone for enthusiasts. We’re truly excited to share these innovations with the Indiegogo community.” He also revealed:

Micro Drone 3.0 4“The step up in technology and features we have packed into Micro Drone 3.0 offers users a taste of things you would find in a high end device. We want Micro Drone 3.0 to be usable by anyone, whether first timers or an adaptable drone for enthusiasts. We’re truly excited to share these innovations with the Indiegogo community.”

Now, thirty days later, the campaign has not only achieved its initial goal, but has also raised over \$1 million dollars. Extreme Fliers decided to extend the project for another 30 days.

Micro Drone 3.0 2The company explained:

“As some of you may have noticed, our Indiegogo Campaign has been extended by 30 days! This is an amazing opportunity that Indiegogo has offered to us as we did not use our full duration as allowed by them and will be of benefit of all of the current backers.

“Just to note , with the extension of the campaign, it **WILL NOT AFFECT SHIPPING DATES** as we have promised. Over the course of the coming days/weeks, we will be sending our updates of the manufacturing process and share photos of Vernon in the factor working on mold production, 3D printing frames, etc... Stay tuned!

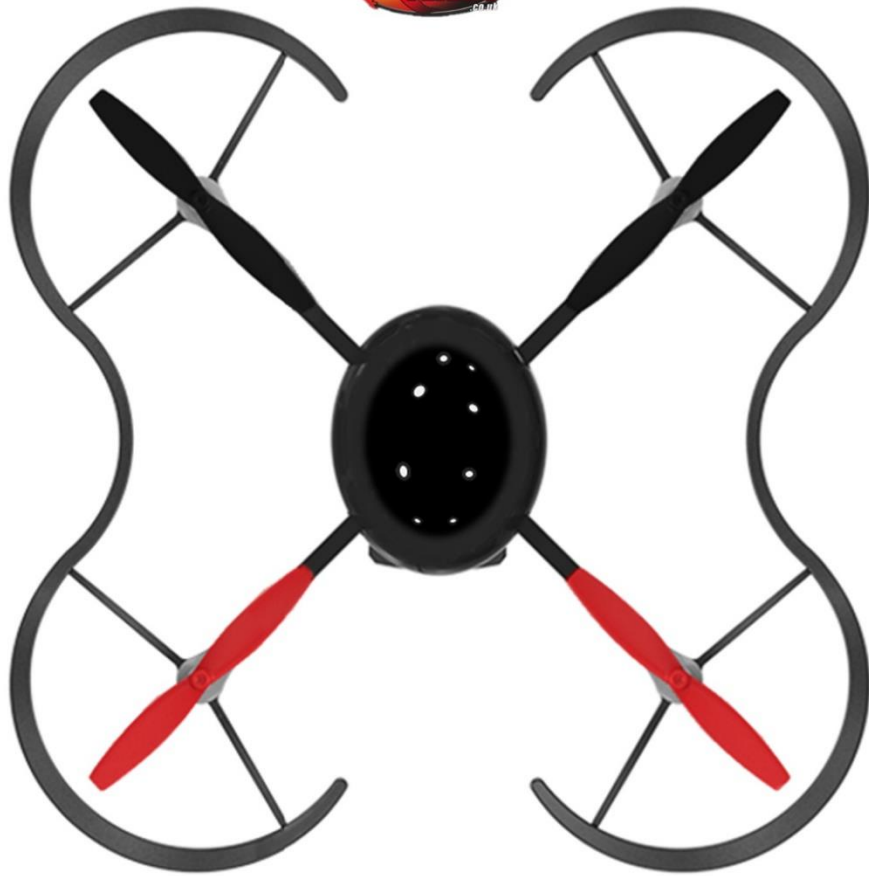
Vernon Kerswell “Further, we were a bit behind on releasing this update as Vernon was in flight to Hong Kong to begin the manufacturing process. For your **M**icro Drone 3.0, as we initially planned. The extension of 30 days is all things equal, as we are moving forward as initially planned.

“Additionally, the first backers to the campaign will receive their drone in the order that they have pledged. Secondly, those who pledge after July 16, will receive their drone one month after the first round of backers.” The campaign is set to close in mid-August.

<http://www.crowdfundinsider.com/2015/07/71452-micro-drone-3-0-captures-1-4m-on-indiegogo-extends-campaign/>



Micro Drone 3.0



Indoor Protective Bumpers

- Chunky box shape around rotors;
- Sweeps around the blades (front and sides);
- Extends up above the Propellers;
- Crafted lightweight design;
- Attach in seconds.

Redefining the Drone

Take the Micro Drone 3.0 anywhere with no hassle.
The capabilities are endless with this palm sized aircraft.

Flight

- Auto-leveling;
- Inverted Flying;
- Sensor Assisted Flying;
- Fly in 45 mph winds;
- Range up to 300 feet.

Video

- Live-stream Video;
- First-Person View Headset Display;
- Worlds Smallest Gimbal;
- Editing Suite;
- HD 1280 x 720 at 30 fps.



Design

- Expansion Packs;
- Modular Design Technology;
- Multiple Device Controls;
- 3D Printed Customization.

Flight, Design & Video

Sensors work together for amazingly stable flight while sending live video to smartphone or reality headset.

Micro Drone 3.0

A Drone for Everyone

- Micro Drone 3.0 combines expandable modular technology, sensor-assisted flying as a micro-gimbal for live stream video;
- The first fully customizable personal Drone, it is a Drone suitable for everyone from video enthusiasts to kids;
- It's great for the professional drone enthusiast and those new to Flying Drones and want a great starter drone to get you started, then expand your drone as your skill level usage grows.

Redefining the Drone

- Take it anywhere with no hassle. The capabilities are endless with palm sized device; Send it up! Capture fantastic aerial shots.
- Micro Drone 3.0 streams HD footage to your phone.



Flight, Video & Design: Sensors work together perfectly for amazingly stable flight or virtual reality headset; “We are excited that Drones have become increasingly popular. It’s encouraged us to push boundaries, adding new technology and functionality, whilst making the end affordable to you”.



Micro Drone 3.0



IOS, Android and Radio

Download Micro Drone 3.0 companion app to control with your mobile device. The 3D mode renders HD video in 3D stereoscopic view for amazing first person view flying.

The pilot can use Micro Drone 3.0 with or without having to carry around the main controller. If the pilot chooses to go without, he/she can still have full function and control using just app, which runs on smartphones or tablets. It's stable, feature rich and offers a decent flight experience, with three different modes of control and social plug ins, including Meerkat live stream integration. Control the Drone and view the footage using IOS and Android devices.



First Person Point of View

Fly the Micro Drone 3.0 revolutionary system allows the Pilot to turn a smartphone into a head mounted display for FPV. Extreme Flyers believes using smartphones (a device people already own) will enable millions of people to experience FPV with Drones.

All New Camera Module

The Micro Drone 3.0' camera module shoots 1280 x 720 (HD-720p), at 30 fps. The Pilot can see in real-time shooting. Connect via WIFI and capture amazing photos and videos directly on own smartphone.



HD - 720P

Micro Drone 3.0



All New Camera Module

Micro Drone 3.0' camera module shoots 1280 x 720 (HD-720p) video at 30 frames per second.

The Pilot can see what he/her is shooting in real time.

When connected via WIFI, it's possible to capture amazing photos and videos directly on the own smartphone.

Until 2012, only large and expensive drones could carry a camera. The Extreme Fliers launched the 2.0 and changed that forever. With Micro Drone 3.0, the company pushed boundaries, brought new technology, always making the end result affordable.

Modular Snap-on Design for Camera Attachment

It's super fast to connect and prevents any broken wire issues. Simply hold the Camera module close to the battery and snap, it's connected! The conventional way to connect the camera to the Drone is with a wire that plugs into the device. With Micro Drone 3.0 both power and connection is made just by touching it together. It is also reversible, so it's possible to capture forward facing and rear facing footage for that ultimate selfie shot.



CAMERA

Micro Drone 3.0



Tech Specifications

- Battery: 450mAh Lithium Cell;
- Flight Time: up to 8 minutes;
- Weight: 56 grams (71g with Camera);
- Dimensions: height 50mm, diameter 145mm, rotor diameter 55mm;
- 6 Axis MEMS Gyroscope (using absolute angle measurement);
- Electronic Compass;
- Accelerometer
- App: iOS and Android
- Range: 15m (50ft) for smartphone or 90m (300ft) for 2.4 Ghz Radio);
- Speed: 45 MPH;
- Smartphone Connectivity: WIFI Tethered to Smartphone;
- Magnets: Neodymium nickel coated 1.8kg magnetic pull;
- Contra-rotational motors (fly Micro Drone 3.0 upside down);
- IEEE 802.11 WIFI Protocol
- CPU: ARM Cortex Processor
- Development platform: Eclipse IDE.

Micro-drones are cool! So what could Extreme Fliers come up with to make diminutive drones even cooler?

- The Micro Drone 3.0 is small enough to fit in your palm and works with 3D printed designs so that users can customize the personal drone into a number of shapes like dragons, TIE Fighters and zeppelins or everything you want.
- But what set Micro Drone 3.0 apart from its competitors is not what's on the outside but under the hood. According to Extreme Fliers, Micro Drone's secret features can be found in a central proprietary flight controller that gives it smart orientation and the ability to fly outside in winds of up to 45mph thanks to its on board sensors.
- The Micro Drone 3.0 can also fly upside down and stick to walls using reverse thrust. The company states that Micro Drone's retractable micro gimbal is the world's smallest and tiny and a robotic arm can easily stabilize the onboard HD camera (720p).
- Compatible with iOS and Android devices, the drone also works with Google Cardboard VR, which will allow the pilot to convert their smart device into a HUD display and view the drone's flight in first person. The Micro Drone 3.0 stores photos and videos on a micro SD card and streams to a tethered smartphone via Wi-Fi.

2.4 Ghz Transmitter (Micro Drone 3.0)



Dimensions (Micro Drone 3.0)





Micro Drone 3.0



Micro Gimbal

Extreme Fliers Stretch Goal 1

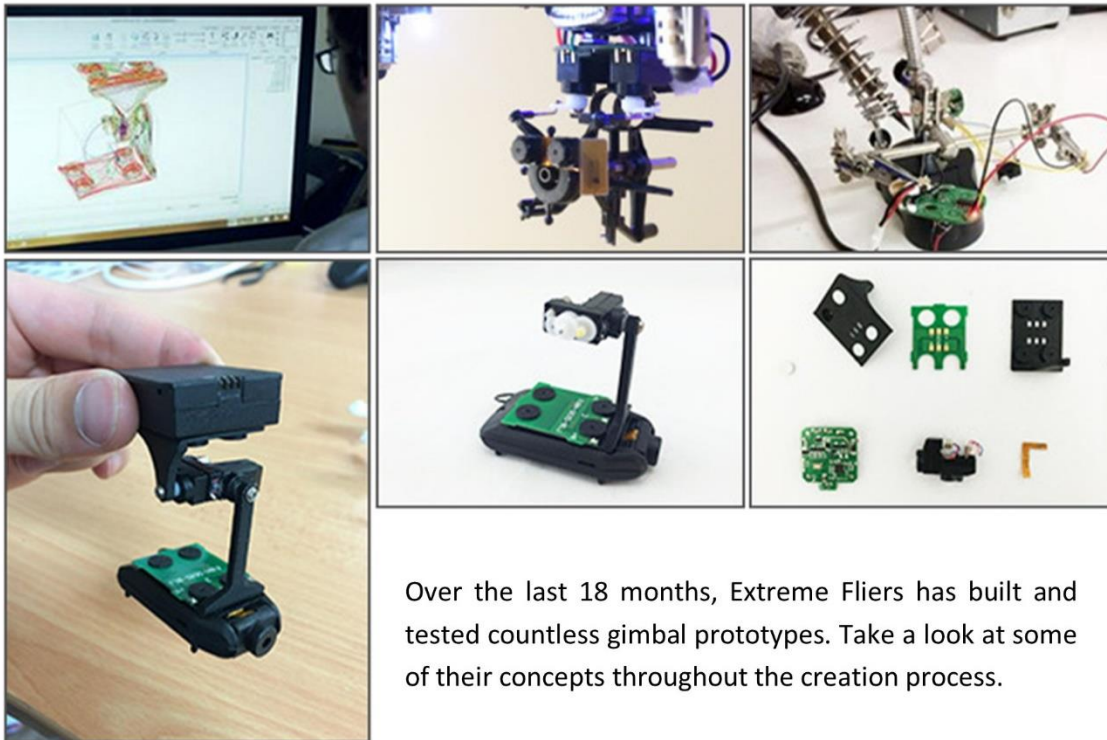
Tiny Gimbal Module

Micro Drone 3.0 brings to the Pilots the smallest gimbal in the world. Designed for easy take-off and landing, the Gimbal snaps onto the Drone with magnets and starts working immediately. Intelligent sensors allow the Pilot to maintain steady shot while flying.

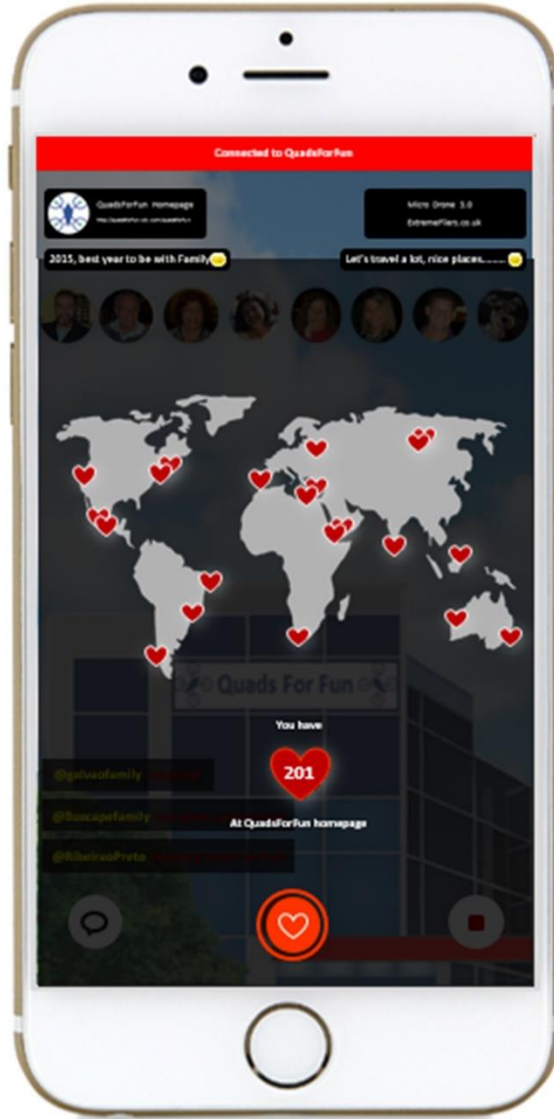
By implementing FPV with DODOcase and Gimbal, the Extreme Fliers is able to greatly improve the experience without motion blur, providing to the Pilot a clear view of where he/she is flying.

Specifications:

- 2-axis stabilization;
- Retractable;
- Rotating camera;
- Magnetic connection;
- Tiny micro servos;
- Planning shots;
- Weight: 20g.



Over the last 18 months, Extreme Fliers has built and tested countless gimbal prototypes. Take a look at some of their concepts throughout the creation process.



Micro Drone 3.0



Live-Stream to Social Media

Extreme Fliers Stretch Goal 2

Social Integration

Micro Drone 3.0 sends a live video feed to your smartphone, so the Pilot see exactly what the Drone is shooting. We will build this into Meerkat's Live Streaming platform to share in real-time.

Press "Stream" and instantly the live video is broadcast to the Pilot followers' Twitter feeds. Friends who have Meerkat will get a push notification when the Pilot starts streaming the video from his/her Drone. They can watch, comment and the Pilot can join other Drone users around the world with a community map, all built into Micro Drone 3.0's app.

Micro Drone 3.0



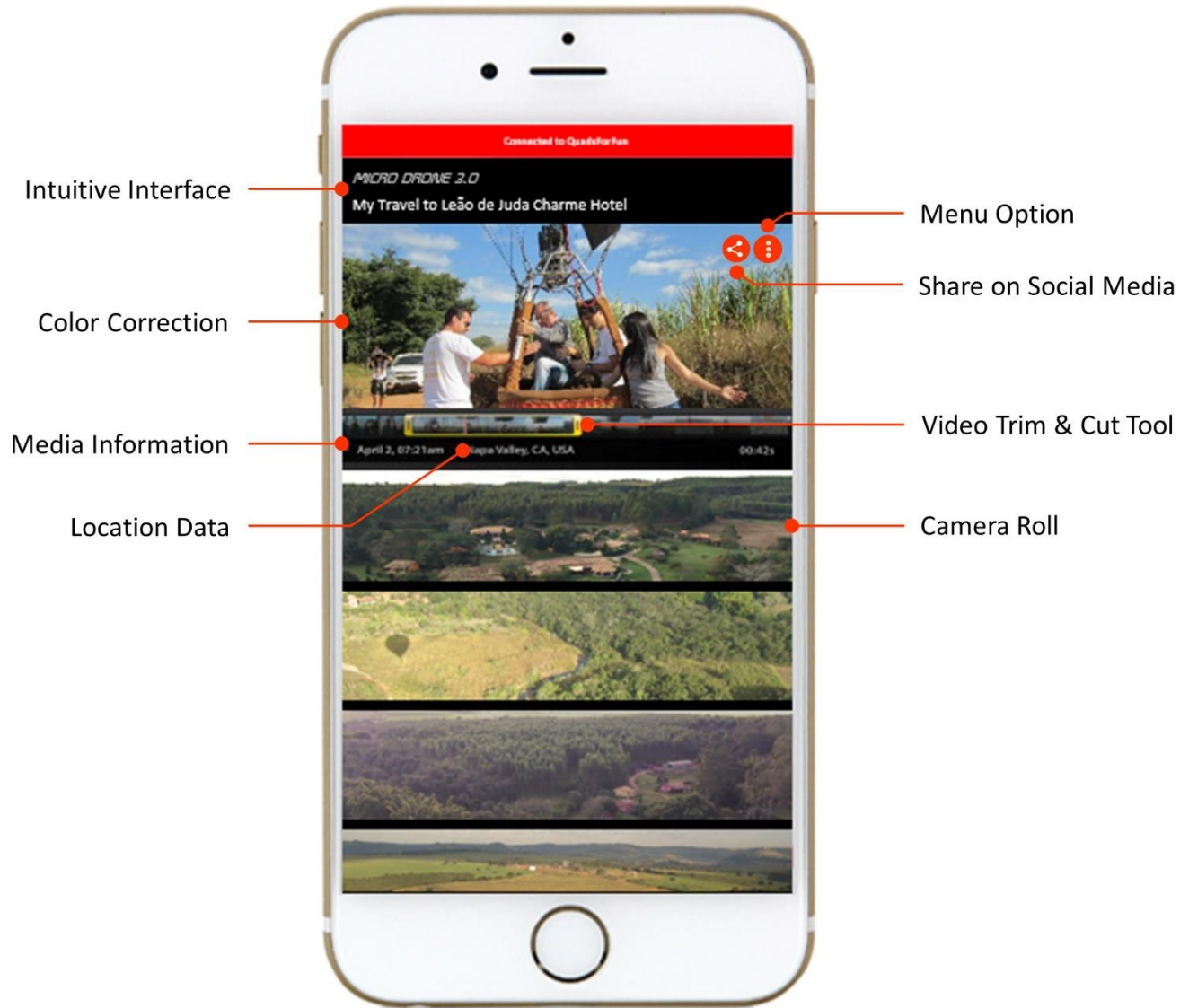
Editing Suite

Extreme Fliers Stretch Goal 3

Video Editing Suite

All photos and videos taken during flight are conveniently stored in "My Journal". Then, the Pilot can easily edit the footage with a host of tools including crop, trim and color enhancements. Additional features such as optical image processing, video stabilization, facial recognition and panoramic photo capture are also available.

Working within the dimensions of the Drone and capability, Extreme Fliers wanted to add, they had to think very carefully about the structure and design. Cutting edge hardware and powerful software is packed tightly into the tiny device.



Micro Drone 3.0



Small



Bigger



and Bigger

Expansion Packs

Turn the small Drone into bigger, more powerful Drone. The Micro Drone 3.0 firmware is programmed with three settings to adjust to different sizes and flight dynamics for varying sizes. It is easily upgradable and customizable. For the Drone enthusiast, think of 3.0 as the base to built on.

3D Printed Designs

When Extreme Fliers launched Micro Drone 3.0 at 3D print shows around the world, their goal was to bring together designers/sculptors and create something special for the Drone industry.

Thanks to their dedication to 3D printing technology, the enthusiasts can now turn the Micro Drone 3.0 into something straight out of fantasy.

Whether its Terror Wasp or a Ferocious Dragon, Micro Drone 3.0 is capable to be customized at the push of a button. The first 1000 supporters will get six free designs and every month the Extreme Fliers will release new 3D accessories.

Build Awesome Custom Frames



Extreme Fliers Team



VERNON KERSWELL
Founder & Hardware Architect



ETHAN ZHOU - KERSWELL
Co-Founder & Operations



JASON CHOW
Senior Product Manager



CHRIS BURGIN
Mentor & Adviser



SCOTT A STEVENSON
Manufacture Engineer



YANG JIANG (DD)
Interactive Designer

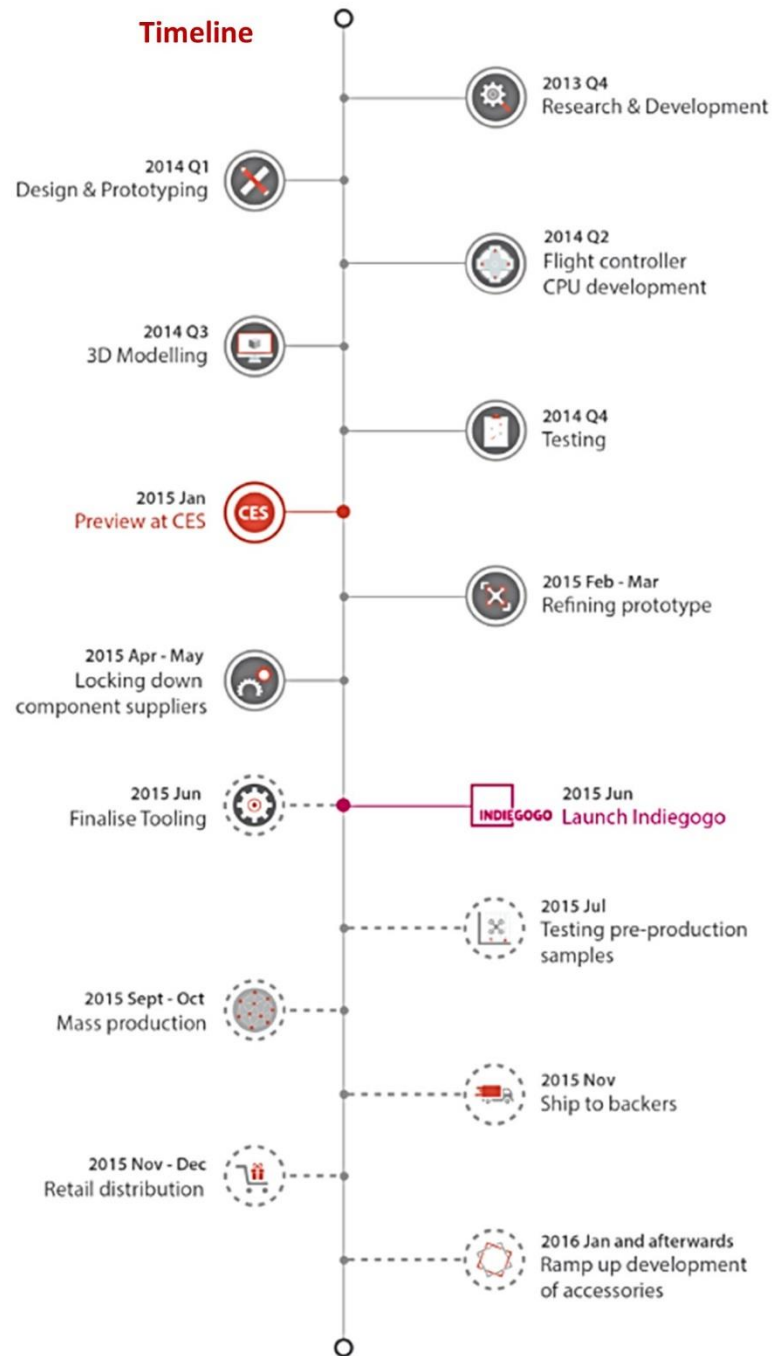


BENJAMIN COLMAN
Marketing Strategist



KAI BRACHER
3D Artist

Timeline



Company Overview

Extreme Fliers Achievements

2007: Vernon Kerswell founded Extreme Fliers after learning Mandarin in Beijing, China, with the aim of finding a manufacturer to produce RC Toys.

2008: Extreme Fliers develops and launches their first flying toy the [Terror Wasp](#).

2009: Extreme Fliers' founder, Vernon Kerswell develops a Helicopter Car (the first Remote Controlled Helicopter & Car in one) and pitches on Dragon.

2010: Extreme Fliers range expands to include Desert Apache, Jungle Dispatch, Vertical Racer and Robocopter.

2011: Extreme Fliers launches Robocopter GST Special Edition and becomes the top selling R/C Helicopter worldwide with over 60,000 sales in 8 countries including UK, Europe and United States.

2012: Extreme Fliers launches iHelicopter.com, a new range of R/C toys controlled by the iPhone set to roll out for Christmas 2012.

About Extreme Fliers

Our mission is to be world's leading R/C Toys Manufacturer and introduce the most innovative products which are realistic, robust and exciting toys you'll ever see.

Imagine taking control of your own helicopter, a machine so lightweight a child can pick it up and play with it, yet so precise and realistic that you'd be forgiven for thinking you were flying the 'real thing' once you get behind the controls.

After appearing on BBC 2's Dragons Den in front of six million viewers and featured on TV shows around the world, even the infamous 'Dragons' knew these products were a winner and eager to test their stability and durability.

Since then Extreme Fliers have become the leading brand in R/C Helicopters with thousands of people talking enjoying our products worldwide. We welcome you to try one out for yourself today and experience a great deal of fun and excitement from getting behind the controls of one of our products.

We have introduced the 'next generation' of Toys and Gadgets

Since the first products rolled off the production line in 2008, our 2nd and 3rd generation products have developed significantly with the latest technology. Our latest product Robocopter GST Special Edition now uses a built-in micro computer which automatically controls the stability, blowing away any other R/C toys on the market today, with devices that use the most advanced electronics in robotics to give the best flying experience. We currently hold two patents for our products which feature our specially designed dual-rotary system and electronic integrated circuits.

Commitment to product design

During the first year of developing Extreme Fliers our team spent weeks at our manufacturer in China, even sleeping on the factory floors, working throughout the night to make sure the products made it to market (yes, that's how committed we are to make sure that we are producing the absolute best flying toys). Five years down the line and we still have that same ethos and culture based on continuous Product Development to bring you the ultimate flying toys and gadgets.

When you see the helicopter for the first time, feel how well build and sturdy it is. Remove the packaging, take it out and you will be able to see for yourself how precise and intricate Extreme Fliers machines are, how versatile and easy to control they are and how easy it is to do great 'tricks' that will leave you family and friends jaws wide open with amazement. Robocopter GST Special Edition has larger battery for extended flight time and is 20% bigger than previous models. It is also designed to self-right if you were to crash land on its side.

We hope you enjoy the Extreme Fliers range.

Yours Sincerely,

Vernon Kerswell
Founder – Extreme Fliers Toys



<http://www.extremefliers.co.uk/>



Quads For Fun



Quads For Fun

<http://quadsforfun.wix.com/quadsforfun>
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