

# **Aviation Investigation Final Report**

Lubbock, Texas Accident Number: CEN22LA150

Date & Time: March 23, 2022, 10:46 Local Registration: N430HS

Aircraft: Sparrow Hawk III Aircraft Damage: Substantial

**Defining Event:** Loss of control in flight **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

#### **Analysis**

Shortly after takeoff the pilot "felt a force straight down." The gyroplane impacted the terrain hard, rolled over, and came to rest on its side adjacent to the runway. The gyroplane sustained substantial damage to the fuselage and stabilizers. Reported winds about the time accident included wind gusts and a peak wind of 30 knots. A postaccident examination of the gyroplane revealed no evidence of mechanical malfunctions or failures that would have precluded normal operation.

### **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The pilot's failure to maintain control of the gyrocopter during takeoff with strong gusty winds.

## Findings

Personnel issues Decision making/judgment - Pilot

**Environmental issues** Gusts - Effect on operation

Aircraft (general) - Not attained/maintained

Personnel issues Aircraft control - Pilot

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## **Factual Information**

## History of Flight

Initial climb	Other weather encounter
Initial climb	Loss of control in flight (Defining event)

#### **Pilot Information**

Certificate:	Commercial; Flight instructor; Private	Age:	56,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	Gyroplane	Restraint Used:	4-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane single-engine	Toxicology Performed:	
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	March 1, 2022
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	1041 hours (Total, all aircraft), 33 hours (Total, this make and model), 836 hours (Pilot In Command, all aircraft), 2 hours (Last 90 days, all aircraft), 2 hours (Last 30 days, all aircraft)		

#### **Aircraft and Owner/Operator Information**

Aircraft Make:	Sparrow Hawk	Registration:	N430HS
Model/Series:	III	Aircraft Category:	Gyroplane
Year of Manufacture:		Amateur Built:	Yes
Airworthiness Certificate:	Experimental (Special)	Serial Number:	S03-0003
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	March 21, 2022 Condition	Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	69 Hrs as of last inspection	Engine Manufacturer:	Subaru
ELT:	Not installed	Engine Model/Series:	EJ-25
Registered Owner:	On file	Rated Power:	
Operator:	On file	Operating Certificate(s) Held:	None

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**Meteorological Information and Flight Plan** 

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KLBB,3241 ft msl	Distance from Accident Site:	11 Nautical Miles
Observation Time:	10:53 Local	Direction from Accident Site:	358°
<b>Lowest Cloud Condition:</b>	Few / 6000 ft AGL	Visibility	10 miles
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	19 knots / 30 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	320°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.11 inches Hg	Temperature/Dew Point:	10°C / -7°C
Precipitation and Obscuration:	No Obscuration; No Precipit	ation	
Departure Point:	Lubbock, TX	Type of Flight Plan Filed:	None
Destination:	Lubbock, TX	Type of Clearance:	None
Departure Time:		Type of Airspace:	Class G

## **Airport Information**

Airport:	Lubbock Executive Airpark F82	Runway Surface Type:	Asphalt
Airport Elevation:	3200 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	35	IFR Approach:	None
Runway Length/Width:	3500 ft / 70 ft	VFR Approach/Landing:	None

## **Wreckage and Impact Information**

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:		Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	33.485853,-101.81374(est)

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#### **Administrative Information**

Investigator In Charge (IIC): Sauer, Aaron

Additional Participating Persons:

Original Publish Date: July 5, 2022

Last Revision Date:

Investigation Class: Class 4

Note: The NTSB did not travel to the scene of this accident.

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=104822

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

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