



# Aviation Investigation Final Report

<b>Location:</b>	Salem, Oregon	<b>Accident Number:</b>	GAA20CA053
<b>Date &amp; Time:</b>	November 1, 2019, 15:30 Local	<b>Registration:</b>	N102PH
<b>Aircraft:</b>	Zenair CH701	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Loss of control in flight	<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Flight test		

## Analysis

The pilot reported that, while taking off, the airplane "suddenly jumped" up about 30 ft with a nose-high attitude and rolled right. He corrected by applying left and forward inputs on the flight controls. The airplane then rolled left. Attempting to level the wings, he reduced power, and the airplane impacted terrain. The pilot further reported that it was his first flight in the experimental, amateur-built airplane and that he should have waited for calm winds before trying a first flight in an unfamiliar airplane. The airplane sustained substantial damage to the fuselage. The pilot reported that there were no preaccident mechanical failures or malfunctions with the airplane 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 lateral control during takeoff, which resulted in impact with terrain. Contributing to the accident was the pilot's improper decision to make his first flight in an airplane he unfamiliar with before waiting for calm winds.

## Findings

<b>Aircraft</b>	Lateral/bank control - Not attained/maintained
<b>Personnel issues</b>	Aircraft control - Pilot
<b>Personnel issues</b>	Decision making/judgment - Pilot
<b>Personnel issues</b>	Total experience w/ equipment - Pilot

## Factual Information

### History of Flight

<b>Takeoff</b>	Loss of control in flight (Defining event)
<b>Takeoff</b>	Attempted remediation/recovery
<b>Takeoff</b>	Collision with terr/obj (non-CFIT)

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	69,Male
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Unknown
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	3-point
<b>Instrument Rating(s):</b>	None	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Sport pilot With waivers/limitations	<b>Last FAA Medical Exam:</b>	January 9, 1986
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	July 22, 2019
<b>Flight Time:</b>	(Estimated) 280 hours (Pilot In Command, all aircraft), 0.5 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Zenair	<b>Registration:</b>	N102PH
<b>Model/Series:</b>	CH701	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	2009	<b>Amateur Built:</b>	Yes
<b>Airworthiness Certificate:</b>	Experimental (Special)	<b>Serial Number:</b>	7-8890
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	August 27, 2019 Condition	<b>Certified Max Gross Wt.:</b>	1100 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	0 Hrs	<b>Engine Manufacturer:</b>	Rotax
<b>ELT:</b>	C91 installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	912 ULS
<b>Registered Owner:</b>	On file	<b>Rated Power:</b>	100 Horsepower
<b>Operator:</b>	On file	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	KSLE, 201 ft msl	<b>Distance from Accident Site:</b>	0 Nautical Miles
<b>Observation Time:</b>	23:56 Local	<b>Direction from Accident Site:</b>	167°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	12 knots / None	<b>Turbulence Type Forecast/Actual:</b>	None / None
<b>Wind Direction:</b>	360°	<b>Turbulence Severity Forecast/Actual:</b>	N/A / N/A
<b>Altimeter Setting:</b>	30.27 inches Hg	<b>Temperature/Dew Point:</b>	15°C / -6°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Salem, OR (SLE )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Salem, OR (SLE )	<b>Type of Clearance:</b>	VFR
<b>Departure Time:</b>	15:30 Local	<b>Type of Airspace:</b>	Class C

## Airport Information

<b>Airport:</b>	McNary Fld SLE	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	213 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	34	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	5146 ft / 100 ft	<b>VFR Approach/Landing:</b>	None

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 None	<b>Latitude, Longitude:</b>	44.909442,-123.002502(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Gutierrez, Eric
<b>Additional Participating Persons:</b>	Kevin Marpert; FAA; Portland, OR
<b>Original Publish Date:</b>	June 16, 2020
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=100528">https://data.nts.gov/Docket?ProjectID=100528</a>

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