



# Aviation Investigation Final Report

<b>Location:</b>	AURORA, Indiana	<b>Accident Number:</b>	CHI86FEX05
<b>Date &amp; Time:</b>	March 26, 1986, 13:24 Local	<b>Registration:</b>	N39RH
<b>Aircraft:</b>	Christen Industries EAGLE II	<b>Aircraft Damage:</b>	Destroyed
<b>Defining Event:</b>		<b>Injuries:</b>	1 Fatal
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

THE AIRCRAFT IMPACTED THE GROUND WHEN AN UNSUCCESSFUL AEROBATIC LOOP MANEUVER WAS ATTEMPTED ON TAKEOFF. THE PILOT OF THE AIRCRAFT WAS ISSUED A STATEMENT OF ACROBATIC COMPENTENCY WHICH ALLOWED ALL MANEUVERS WITHIN THE LIMITATIONS OF THE AIRCRAFT AND WITH A MINIMUM ALTITUDE LIMITATION OF 500 FEET. THE PILOT HAD APPROXIMATELY 500 HOURS FLIGHT TIME WITH 460 HOURS AS PIC IN THIS TYPE AIRCRAFT. ACCORDING TO THE DESIGNER OF THIS AIRCRAFT IT IS NOT NORMALLY CAPABLE OF SUCCESSFULLY COMPLETING A LOOP ON TAKEOFF.

## Probable Cause and Findings

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

### Findings

Occurrence #1: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: MANEUVERING

#### Findings

1. (C) AIRCRAFT PERFORMANCE - EXCEEDED
2. (C) ALTITUDE - MISJUDGED - PILOT IN COMMAND
3. (C) AEROBATICS - INTENTIONAL - PILOT IN COMMAND
4. (F) OVERCONFIDENCE IN AIRCRAFT'S ABILITY - PILOT IN COMMAND



## Factual Information

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	38, Male
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Rear
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	None	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	Yes
<b>Medical Certification:</b>	Class 3 Valid Medical--no waivers/lim.	<b>Last FAA Medical Exam:</b>	June 5, 1984
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	500 hours (Total, all aircraft), 500 hours (Total, this make and model), 460 hours (Pilot In Command, all aircraft), 10 hours (Last 90 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Christen Industries	<b>Registration:</b>	N39RH
<b>Model/Series:</b>	EAGLE II EAGLE II	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	Yes
<b>Airworthiness Certificate:</b>	Experimental (Special)	<b>Serial Number:</b>	0001
<b>Landing Gear Type:</b>	Tailwheel	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	March 1, 1986 Annual	<b>Certified Max Gross Wt.:</b>	
<b>Time Since Last Inspection:</b>	19 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	311 Hrs	<b>Engine Manufacturer:</b>	LYCOMING
<b>ELT:</b>	Installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	AEIO-360-A1D
<b>Registered Owner:</b>	ROBERT N. HENDERSON	<b>Rated Power:</b>	200 Horsepower
<b>Operator:</b>		<b>Operating Certificate(s) Held:</b>	None
<b>Operator Does Business As:</b>		<b>Operator Designator Code:</b>	

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	CVG ,891 ft msl	<b>Distance from Accident Site:</b>	13 Nautical Miles
<b>Observation Time:</b>	12:50 Local	<b>Direction from Accident Site:</b>	95°
<b>Lowest Cloud Condition:</b>	Scattered / 6000 ft AGL	<b>Visibility</b>	15 miles
<b>Lowest Ceiling:</b>	Overcast / 20000 ft AGL	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	20 knots / 30 knots	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	240°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30 inches Hg	<b>Temperature/Dew Point:</b>	22°C / 3°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>		<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	LORAIN (22G )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	13:23 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	AURORA I60	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	780 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	16	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	2400 ft / 50 ft	<b>VFR Approach/Landing:</b>	None

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Fatal	<b>Aircraft Damage:</b>	Destroyed
<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 Fatal	<b>Latitude, Longitude:</b>	39.060859,-84.899147(est)

## Administrative Information

**Investigator In Charge (IIC):** Ziese, Willis

**Additional Participating Persons:** ERNEST J DAVIS; INDIANAPOLIS , IN  
JAMES FRESEMAN; INDIANAPOLIS , IN

**Original Publish Date:**

**Last Revision Date:**

**Investigation Class:** [Class](#)

**Note:**

**Investigation Docket:** <https://data.nts.gov/Docket?ProjectID=13347>

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