



Aviation Investigation Final Report

Location:	Ann Arbor, Michigan	Accident Number:	CEN12LA231
Date & Time:	April 5, 2012, 11:30 Local	Registration:	N75GX
Aircraft:	REMOS ACFT GMBH FLUGZEUGBAU REMOS GX	Aircraft Damage:	Destroyed
Defining Event:	Loss of control in flight	Injuries:	1 Serious
Flight Conducted Under:	Part 91: General aviation - Instructional		

Analysis

The student pilot reported that the airplane suddenly veered to the left during the takeoff roll and that he was unable to maintain control, even with full opposite rudder and aileron inputs. The airplane became momentarily airborne before it nosed down and impacted a field adjacent to the runway. The student pilot reported no preimpact mechanical malfunctions or failures 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 student pilot's failure to maintain airplane control on takeoff, which resulted in an aerodynamic stall and collision with terrain.

Findings

Personnel issues	Aircraft control - Student/instructed pilot
Aircraft	Directional control - Not attained/maintained

Factual Information

History of Flight

Takeoff	Loss of control in flight (Defining event)
Takeoff	Aerodynamic stall/spin
Uncontrolled descent	Collision with terr/obj (non-CFIT)

On April 5, 2012, at 1130 eastern daylight time, N75GX, a special light sport Remos GX, sustained substantial damage on takeoff from the Ann Arbor Municipal Airport (ARB), Ann Arbor, Michigan. The student pilot was seriously injured. The airplane was registered to and operated by Gemini Aviation LLC, Flat Rock, Michigan. A visual flight rules flight plan was filed for the flight destined for Adrian, Lenawee County Airport (ADG), Adrian, Michigan. Visual meteorological conditions prevailed for the solo cross country flight conducted under 14 Code of Federal Regulations Part 91.

In a written statement, the student pilot stated that during the take off roll on runway 06, the airplane suddenly veered "hard" to the left. He was unable to correct the turn with full right rudder and aileron. The student pilot said, "...The airplane just jumped up into the air and when it went up it continued to go to the left and then it came straight down." The airplane sustained substantial damage to both wings, the empennage, and the firewall. In addition, both the left main and nose landing gears had separated.

The student pilot reported a total of 25.5 flight hours; all of which were in the accident airplane. He also said there were no pre-mishap mechanical failures.

At 1135, weather reported at the airport was wind from 060 degrees at 12 knots gusting to 22 knots, visibility 10 miles, scattered clouds at 2,900 feet, temperature 6 degrees Celsius, dewpoint -2 degrees Celsius, and an altimeter setting of 30.05 inches of Mercury.

Student pilot Information

Certificate:	Student	Age:	43, Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	None None	Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	25 hours (Total, all aircraft), 25 hours (Total, this make and model), 3 hours (Pilot In Command, all aircraft), 17 hours (Last 90 days, all aircraft), 2 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	REMOS ACFT GMBH FLUGZEUGBAU	Registration:	N75GX
Model/Series:	REMOS GX	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Special light-sport (Special)	Serial Number:	277
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	November 15, 2011 100 hour	Certified Max Gross Wt.:	1302 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	492 Hrs as of last inspection	Engine Manufacturer:	ROTAX
ELT:	Installed, not activated	Engine Model/Series:	912ULS
Registered Owner:	GEMINI AVIATION LLC	Rated Power:	100 Horsepower
Operator:	GEMINI AVIATION LLC	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	ARB,839 ft msl	Distance from Accident Site:	
Observation Time:	10:35 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Scattered / 2900 ft AGL	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	12 knots / 22 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	60°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.04 inches Hg	Temperature/Dew Point:	6°C / -2°C
Precipitation and Obscuration:			
Departure Point:	Ann Arbor, MI (ARB)	Type of Flight Plan Filed:	VFR
Destination:	Adrian, MI (ADG)	Type of Clearance:	VFR
Departure Time:	11:30 Local	Type of Airspace:	Class D

Airport Information

Airport:	Ann Arbor Municipal ARB	Runway Surface Type:	Asphalt
Airport Elevation:	839 ft msl	Runway Surface Condition:	Dry
Runway Used:	06	IFR Approach:	None
Runway Length/Width:	3505 ft / 75 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Destroyed
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Serious	Latitude, Longitude:	42.220275,-83.740554(est)

Administrative Information

Investigator In Charge (IIC):	Yeager, Leah
Additional Participating Persons:	Wayne Philips; FAA/FSDO; Lansing, MI
Original Publish Date:	April 25, 2013
Last Revision Date:	
Investigation Class:	Class
Note:	
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=83308

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