



# Aviation Investigation Final Report

<b>Location:</b>	Sacramento, California	<b>Accident Number:</b>	WPR21LA187
<b>Date &amp; Time:</b>	May 9, 2021, 14:20 Local	<b>Registration:</b>	N104GX
<b>Aircraft:</b>	REMOS ACFT GMBH FLUGZEUGBAU REMOS GX	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Loss of control on ground	<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

The student pilot reported that, he configured the airplane for landing on runway 22R and touched down on the runway centerline. Upon landing, the airplane encountered a wind gust and became airborne. The airplane drifted off the runway area and the wings oscillated with the tips making contact with the surface. As a result of the impact, the airplane sustained substantial damage to the upper fuselage skin located between the wing roots. The pilot reported that there were no preaccident mechanical malfunctions or failures with the airplane that would have precluded normal operation.

An aviation routine weather report (METAR) for the airport about 25 minutes after the accident reported winds from 310° at 10 knots with gusts to 17 knots.

## 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 directional control during landing in gusty wind conditions which resulted in a runway excursion and collision with terrain.

## Findings

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<b>Personnel issues</b>	Aircraft control - Pilot
<b>Aircraft</b>	Directional control - Not attained/maintained
<b>Environmental issues</b>	Gusts - Effect on operation

## Factual Information

### History of Flight

<b>Landing</b>	Loss of control on ground (Defining event)
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### Pilot Information

<b>Certificate:</b>	Student	<b>Age:</b>	49, Male
<b>Airplane Rating(s):</b>	None	<b>Seat Occupied:</b>	Left
<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>	
<b>Medical Certification:</b>	Class 3 Without waivers/limitations	<b>Last FAA Medical Exam:</b>	September 14, 2020
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	(Estimated) 45 hours (Total, all aircraft), 44 hours (Total, this make and model)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	REMOS ACFT GMBH FLUGZEUGBAU	<b>Registration:</b>	N104GX
<b>Model/Series:</b>	REMOS GX	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	2008	<b>Amateur Built:</b>	Yes
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	288
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	100 hour	<b>Certified Max Gross Wt.:</b>	1000 lbs
<b>Time Since Last Inspection:</b>	100 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	800 Hrs as of last inspection	<b>Engine Manufacturer:</b>	Rotax
<b>ELT:</b>	C91 installed, activated	<b>Engine Model/Series:</b>	912
<b>Registered Owner:</b>	On file	<b>Rated Power:</b>	80
<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>	KMHR,96 ft msl	<b>Distance from Accident Site:</b>	1 Nautical Miles
<b>Observation Time:</b>	14:45 Local	<b>Direction from Accident Site:</b>	349°
<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>	10 knots / 17 knots	<b>Turbulence Type Forecast/Actual:</b>	None / None
<b>Wind Direction:</b>	310°	<b>Turbulence Severity Forecast/Actual:</b>	N/A / N/A
<b>Altimeter Setting:</b>	29.84 inches Hg	<b>Temperature/Dew Point:</b>	29°C / 1°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	San Jose, CA (RHV)	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Sacramento, CA	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	13:30 Local	<b>Type of Airspace:</b>	

## Airport Information

<b>Airport:</b>	SACRAMENTO MATHER MHR	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	98 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	04L/22R	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	6081 ft / 150 ft	<b>VFR Approach/Landing:</b>	Full stop;Traffic pattern

## 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>		<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 None	<b>Latitude, Longitude:</b>	38.555311,-121.29721

## Administrative Information

**Investigator In Charge (IIC):** Keliher, Zoe

**Additional Participating Persons:**

**Original Publish Date:** September 20, 2021

**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=103054>

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