

NATIONAL TRANSPORTATION SAFETY BOARD PILOT/OPERATOR AIRCRAFT ACCIDENT/INCIDENT REPORT

This form to be used for reporting civil and public aircraft accidents and incidents

BASIC INFORMATION

Accident/Incident Location

Nearest City/Place: South Valley Regional Airport State: UT

ZIP: 84084 Country: United States of America

Latitude: 40.62 N Longitude: 111.99 W

(Enter in decimal degrees or degrees:minutes:seconds)

Accident/Incident Date/Time

Date: 04/16/2022 Local Time: 1330

mm/dd/yyyy

Time Zone: MST

Collision with Other Aircraft: ☐ Midair ☐ On-ground ☒ None

AIRCRAFT INFORMATION

Registration Number: N3297Q

Manufacturer: Robinson Helicopter

Model: R-44 Raven II

Serial Number: 10178

Year of Manufacture: 2003

Amateur-Built: ☐ Yes ☒ No If Yes: ☐ Kit/Plans ☐ Original Design Make: _____

☐ IFR-Equipped and Certified

☐ Commercial Space Flight

☐ Unmanned Aircraft

Maximum Gross Weight: 2,500 lbs

Weight at Time of Accident/Incident: 2,200 lbs

Number of Seats: 4 Flight Crew Seats: _____

Cabin Crew Seats: _____ Passenger Seats: _____

Number of Engines: 1

Category of Aircraft

- ☐ Airplane
- ☐ Balloon
- ☐ Blimp/Dirigible
- ☐ Glider
- ☐ Gyroplane
- ☒ Helicopter
- ☐ Powered Lift
- ☐ Rocket
- ☐ Ultralight
- ☐ Unknown

Type of Airworthiness Certificate

(Check all that apply)

Standard

- ☒ Normal
- ☐ Aerobatic
- ☐ Balloon
- ☐ Commuter
- ☐ Transport
- ☐ Utility

Special

- ☐ Restricted
- ☐ Limited
- ☐ Provisional
- ☐ Special Flight
- ☐ Experimental
- ☐ Special Light-Sport
- ☐ Experimental Light-Sport

☐ Certificate of Authorization or Waiver (COA)

☐ None

☒ Unknown

Landing Gear

(Check all that apply)

☐ Retractable

- ☐ Tricycle
- ☐ Amphibian
- ☐ Emergency Float
- ☐ Float
- ☐ Hull
- ☐ Other Launch/Recovery System
- ☐ None
- ☐ Tailwheel
- ☐ High Skid
- ☒ Skid
- ☐ Ski
- ☐ Ski/Wheel
- ☐ Unknown

Engine Type (Select one)

- ☒ Reciprocating
- ☐ Turbo Shaft
- ☐ Turbo Prop
- ☐ Turbo Jet
- ☐ Turbo Fan
- ☐ Electric
- ☐ Liquid Rocket
- ☐ Solid Rocket
- ☐ Hybrid Rocket
- ☐ None
- ☐ Unknown

Fuel System Type (Reciprocating)

- ☐ Carburetor
- ☒ Fuel-Injected

Engine	Engine Manufacturer	Engine Model/Series	Manufacturer's Serial Number	Date of Mfg. mm/dd/yyyy	Rated Power <input checked="" type="radio"/> Horsepower or <input type="radio"/> lbs of Thrust	Total Time (hours)	Time Since: Inspection (hours)	Overhaul (hours)
Eng. 1	Lycoming	10-540-AE1A5	L-28894-48A		300 derated 260	4195.9	19.9	1995.9
Eng. 2								
Eng. 3								
Eng. 4								

Last Inspection Type

- ☒ 100-Hour
- ☐ AAIP
- ☐ Annual
- ☐ Continuous Airworthiness
- ☐ Conditional Inspection
- ☐ Unknown

Date Last Inspection: 03/24/2022
mm/dd/yyyy

Airframe Total Time: 4195.9 hrs

hours measured at (Select one)

- ☐ Last Inspection
- ☒ Time of Accident/Incident

Type of Maintenance Program (Select one)

- ☒ Annual
- ☐ Conditional (Amateur-built only)
- ☐ Manufacturer's Inspection Program
- ☐ Other Approved Inspection Program (AAIP)
- ☐ Continuous Airworthiness
- ☐ Other, specify: _____

Description of Fire Extinguishing System

- ☐ None
- ☐ Specify: _____

Propeller 1

- ☐ Fixed Pitch
- ☐ Controllable Pitch
- ☐ Ground Adjustable

Manufacturer: _____

Model: _____

Propeller 2

- ☐ Fixed Pitch
- ☐ Controllable Pitch
- ☐ Ground Adjustable

Manufacturer: _____

Model: _____

ELT Installed: ☒ Yes ☐ No

If Yes:

ELT Manufacturer: _____

Model or Part No.: _____

TSO No.: ☐ OC91 (121.5 MHz) ☐ OC91a (121.5 MHz)
☐ OC126 (406 MHz)

Was ELT still mounted in aircraft? ☒ Yes ☐ No

Was ELT still connected to antenna? ☐ Yes ☒ No

Did ELT Activate? ☐ Yes ☒ No

If activated:

Did ELT Aid in Locating Aircraft? ☐ Yes ☒ No

If not activated:

- Indicate Reason:
- ☐ Impact Damage
 - ☐ Fire Damage
 - ☐ Battery Expired/Damaged
 - ☐ Unknown

Additional Equipment (Check all that apply)

- ☒ ADS-B
- ☐ Airframe Parachute
- ☐ Angle of Attack Indicator
- ☐ Autopilot
- ☐ Data Recorder
- ☐ Electronic Flight Bag or Handheld Device
- ☐ Electronic Multifunction Display
- ☐ Electronic Primary Flight Display
- ☐ Handheld GPS
- ☐ Heads Up Display
- ☐ Onboard Weather
- ☐ Satellite Tracking Device
- ☐ Stall Warning System
- ☐ Video Recording Device
- ☐ Other, Specify: _____

OWNER/OPERATOR INFORMATION**Registered Aircraft Owner**Name: Gary HansenCity: Spanish ForkFractional Ownership Aircraft: ☐ Yes ☒ NoState: UT ZIP: 84660Country: USA**Operator of Aircraft**☐ Same As Registered Owner☒ Same Address as Registered OwnerName: Utah Helicopter (Shane Schmutz - CFII)

City: _____

Doing Business As: Utah Helicopter

State: _____ ZIP: _____

Air Carrier/Operator Designator (4 Character Code): _____

Country: _____

Operating Certificates Held

(Check all that apply)

- ☐ None
☐ Flag Carrier Operating Certificate (FAR 121)
☐ Supplemental
☐ Air Cargo
☐ Foreign Air Carriers (FAR 129)
☐ Rotorcraft External Load (FAR 133)
☐ Commuter Air Carrier (FAR 135)
☐ On-Demand Air Taxi (FAR 135)
☐ Commercial Air Tour (FAR 136)
☐ Agricultural Aircraft (FAR 137)
☒ Pilot School (FAR 141)
☐ Certificate of Authorization or Waiver (COA)
☐ Commercial Space Transportation
Experimental Permit
☐ Commercial Space Transportation License
☐ Other Operator of Large Aircraft

Regulation Flight Conducted Under

- ☒ FAR 91 ☐ FAR 129 ☐ FAR 415
☐ FAR 103 ☐ FAR 133 ☐ FAR 431
☐ FAR 121 ☐ FAR 135 ☐ FAR 435
☐ FAR 125 ☐ FAR 137 ☐ FAR 437
- ☐ FAR 91 Special Flight
☐ Non-US, Commercial
☐ Non-US, Non-commercial
- ☐ Public Aircraft (Select one)
☐ Armed Forces
☐ Federal
☐ State
☐ Local
☐ Unknown

Revenue Operation for FAR 121, 125, 129, 135

(Select one for each group)

- ☐ Scheduled or Commuter ☐ Domestic
☐ Non-Scheduled or Air Taxi ☐ International
- ☐ Passenger
☐ Cargo
☐ Mail Contract Only

Purpose of Flight for FAR 91, 103, 133, 137

(Select one)

- ☐ Aerial Application ☐ Firefighting ☐ Unknown
☐ Aerial Observation ☐ Flight Test
☐ Air Drop ☐ Glider Tow
☐ Air Race/Show ☒ Instructional
☐ Banner Tow ☐ Other Work Use
☐ Business ☐ Personal
☐ Executive/Corporate ☐ Positioning
☐ External Load ☐ Skydiving
☐ Ferry

Revenue Sightseeing Flight☐ Yes ☒ No**Air Medical Flight**☐ Yes ☒ No**AIRPORT INFORMATION (Fill in if accident/incident occurred on approach, landing, takeoff, departure, or within 3 miles of an airport)**Airport Name: South Valley Regional - Taxi Way Alpha at A-2Distance From Airport Center: 0 smAirport Identifier: U42

Direction From Airport: _____ degrees true

Proximity to Airport: ☐ Off Airport/Airstrip ☒ On Airport/Airstrip ☐ N/AAirport Elevation: 4,606 ft. msl**Runway Information**Runway ID: Taxiway A (L/R/C) Length: _____ ft Width: _____ ft**Runway/Landing Surface (Check all that apply)**

- ☒ Asphalt ☐ Grass/Turf ☐ Macadam ☐ Water
☐ Concrete ☐ Gravel ☐ Metal/Wood
☐ Dirt ☐ Ice ☐ Snow ☐ Unknown

Condition of Runway/Landing Surface (Check all that apply)

- ☒ Dry ☐ Snow-Compacted ☐ Water-Calm
☐ Holes ☐ Snow-Crusted ☐ Water-Choppy
☐ Ice Covered ☐ Snow-Dry ☐ Water-Glassy
☐ Rough ☐ Snow-Wet ☐ Wet
☐ Rubber Deposits ☐ Soft
☐ Slush-Covered ☐ Vegetation ☐ Unknown

Approach/Departure Segment (Select one)

- ☒ Taxi ☐ VFR Departure ☐ On Instrument Approach ☐ Downwind ☐ Low Approach
☐ Takeoff ☐ IFR Departure Procedure/Clearance ☐ Landing ☐ Base ☐ Go Around
☐ Initial Climb ☐ Aborted Landing (after touchdown)
☐ Crosswind ☐ Unknown

IFR Approach (Check all that apply)

- ☒ None
- ☐ ADF/NDB ☐ PAR ☐ MLS ☐ Practice
☐ SDF ☐ Sidestep ☐ LDA ☐ GPS
☐ VOR/TVOR ☐ ILS ☐ ASR
☐ VOR/DME ☐ Localizer Only ☐ Visual
☐ TACAN ☐ LOC-back course ☐ Contact
☐ RNAV ☐ Circling
☐ Unknown

VFR Approach (Check all that apply)

- ☒ None
- ☐ Traffic Pattern ☐ Stop and Go
☐ Straight-In ☐ Touch and Go
☐ Valley/Terrain Following ☐ Simulated Forced Landing
☐ Go Around ☐ Forced Landing
☐ Full Stop ☐ Precautionary Landing
☐ Unknown

"FLIGHT CREWMEMBER 1" INFORMATION

"Flight Crewmember 1" Responsibilities at the Time of Accident/Incident

☐ Pilot
 ☐ Co-Pilot
 ☐ Student Pilot
 ☒ Flight Instructor
 ☐ Check Pilot
 ☐ Flight Engineer
 ☐ Other Flight Crew

"Flight Crewmember 1" was pilot flying ☐ Yes ☐ No

"Flight Crewmember 1" Identification

First Name: Shane

City of Residence: West Jordan

Middle Initial: R

State: UT ZIP: 84088

Last Name: Schmutz

Country: USA

Age at time of Accident/Incident: 43 Date of Birth: mm/dd/yyyy

Certificate Number: mm/dd/yyyy

Degree of Injury

☒ None
 ☐ Fatal
☐ Minor
 ☐ Unknown
☐ Serious

Seat Occupied

☒ Left
 ☐ Front
 ☐ Unknown
☐ Right
 ☐ Rear
☐ Center
 ☐ Single

Restraint Type

Available

☐ None
☐ Lap only
☒ 3-point
☐ 4-point
☐ 5-point
☐ Unknown

Used

☐ None
☐ Lap only
☒ 3-point
☐ 4-point
☐ 5-point
☐ Unknown

Inflatable Restraints

☒ Not Installed
☐ Installed
☐ Not Deployed
☐ Deployed
☐ Unknown

Pilot Certificate(s) (Check all that apply)

☐ None
 ☒ Flight Instructor
 ☒ Commercial
 ☒ US Military
☐ Private
 ☐ Recreational
 ☐ Airline Transport
 ☐ Foreign
☐ Student
 ☐ Sport
 ☐ Flight Engineer

Principal Occupation

☒ Pilot
☐ Other
☐ Unknown

Medical Certificate

☐ None
 ☐ Class 3
☒ Class 1
 ☐ Driver's License (Sport Pilot only)
☐ Class 2
 ☐ Unknown

Medical Certificate Validity

☒ Without limitations/waivers
 ☐ Unknown
☐ With limitations/waivers
 ☐ N/A
☐ Special Issuance

Date of Last Medical

03/28/2022
 mm/dd/yyyy

Medical Certificate Limitations

None

Medical Certificate Special Issuance

None

Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks:

02/09/2022
 mm/dd/yyyy

Flight Review Aircraft

Make: Robinson

Model: R-44

Airplane Rating(s) (Check all that apply)

☒ None
☐ Single-Engine Land
☐ Single-Engine Sea
☐ Multiengine Land
☐ Multiengine Sea

Other Aircraft Rating(s) (Check all that apply)

☐ None
☐ Airship
☐ Balloon
☐ Glider
☐ Gyroplane
☒ Helicopter
☐ Powered Lift

Instrument Rating(s) (Check all that apply)

☐ None
☐ Airplane
☒ Helicopter
☐ Powered Lift

Instructor Rating(s) (Check all that apply)

☐ None
 ☐ Instrument Airplane
☐ Airplane Single-Engine
 ☒ Instrument Helicopter
☐ Airplane Multi-Engine
 ☒ Helicopter
☐ Gyroplane
 ☐ Glider
☐ Powered Lift
 ☐ Sport

Type Ratings

S-70

Student Endorsements (Include dates)

Private Practical Test, 22MAR2022, Pass (Douglas R. Swanson)

Flight Time (Enter appropriate number of hours in each box)	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air
						Actual	Simulated			
Total Time	1384.0	75.0			219.0	5.8	83.4	1384		
Pilot in Command (PIC)	1349.5									
Time as Instructor	166.6	50.0								
This Make/Model					5.6	0	0			
Last 90 Days	180	75			5.6	0	0	180		
Last 30 Days	127.6	47.4								
Last 24 Hours	5.0	1.4								

Certificate Number:

[illegible]

ADDITIONAL FLIGHT CREWMEMBERS (Exclusive of cabin crew, complete the following information)									
Crew Name and Address					Seat Occupied		Injury		
First Name: _____ City of Residence: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____					<input type="radio"/> Left <input type="radio"/> Front <input type="radio"/> Center <input checked="" type="radio"/> Rear <input type="radio"/> Right <input type="radio"/> Single <input type="radio"/> <input type="radio"/> Unknown		<input checked="" type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown		
Pilot Certificate(s) (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Flight Instructor <input type="checkbox"/> Commercial <input type="checkbox"/> US Military <input type="checkbox"/> Private <input type="checkbox"/> Recreational <input type="checkbox"/> Airline Transport <input type="checkbox"/> Foreign <input type="checkbox"/> Student <input type="checkbox"/> Sport <input type="checkbox"/> Flight Engineer					Restraint Type: Available Used <input type="radio"/> None <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> Lap Only <input checked="" type="radio"/> 3-point <input checked="" type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> 5-point <input type="radio"/> Unknown <input type="radio"/> Unknown		Inflatable Restraints <input checked="" type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown		
Type Rating/Endorsement for Accident/Incident Aircraft? <input type="checkbox"/> Yes <input type="checkbox"/> No			Total Flight Time at the Time of this Accident/Incident: _____ hrs						
Crew Name and Address					Seat Occupied		Injury		
First Name: _____ City of Residence: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____					<input type="radio"/> Left <input type="radio"/> Front <input type="radio"/> Center <input type="radio"/> Rear <input type="radio"/> Right <input type="radio"/> Single <input type="radio"/> <input type="radio"/> Unknown		<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown		
Pilot Certificate(s) (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Flight Instructor <input type="checkbox"/> Commercial <input type="checkbox"/> US Military <input type="checkbox"/> Private <input type="checkbox"/> Recreational <input type="checkbox"/> Airline Transport <input type="checkbox"/> Foreign <input type="checkbox"/> Student <input type="checkbox"/> Sport <input type="checkbox"/> Flight Engineer					Restraint Type: Available Used <input type="radio"/> None <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> 5-point <input type="radio"/> Unknown <input type="radio"/> Unknown		Inflatable Restraints <input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown		
Type Rating/Endorsement for Accident/Incident Aircraft? <input type="checkbox"/> Yes <input type="checkbox"/> No			Total Flight Time at the Time of this Accident/Incident: _____ hrs						
PASSENGER(S) / OTHER PERSONNEL (Include cabin crew; continue on separate sheet if necessary)									
Name and Address			Seat	Injury	Restraint Type		Inflatable Restraints	Age	
First Name: <u>Richard</u> City : <u>Salt Lake City</u> Middle Initial: _____ State: <u>UT</u> ZIP: <u>84109</u> Last Name: <u>Shelton</u> Country: <u>USA</u> <input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other			<input type="radio"/> Left <input type="radio"/> Center <input checked="" type="radio"/> Right <input type="radio"/> Unknown Row: <u>2</u>	<input checked="" type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	Available <input type="radio"/> None <input type="radio"/> Lap Only <input checked="" type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	Used <input type="radio"/> None <input type="radio"/> Lap Only <input checked="" type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<input checked="" type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown	<input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown	
First Name: _____ City : _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____ <input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other			<input type="radio"/> Left <input type="radio"/> Center <input type="radio"/> Right <input type="radio"/> Unknown Row: _____	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	Available <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	Used <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown	<input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown	
First Name: _____ City : _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____ <input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other			<input type="radio"/> Left <input type="radio"/> Center <input type="radio"/> Right <input type="radio"/> Unknown Row: _____	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	Available <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	Used <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown	<input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown	
First Name: _____ City : _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____ <input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other			<input type="radio"/> Left <input type="radio"/> Center <input type="radio"/> Right <input type="radio"/> Unknown Row: _____	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	Available <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	Used <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown	<input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown	

FLIGHT ITINERARY INFORMATION

Last Departure Point Airport ID: <u>U42</u> City: <u>West Jordan</u> State: <u>UT</u> Country: <u>USA</u>	Time of Departure Time: <u>1230</u> Time Zone: <u>MST</u>	Destination Airport ID: <u>U42</u> City: <u>West Jordan</u> State: <u>UT</u> Country: <u>84088</u>	Type Flight Plan Filed <input checked="" type="radio"/> None <input type="radio"/> VFR/IFR <input type="radio"/> Company VFR <input type="radio"/> IFR <input type="radio"/> Military VFR <input type="radio"/> Unknown <input type="radio"/> VFR Activated? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown
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Type of ATC Clearance/Service (Check all that apply)

<input checked="" type="checkbox"/> None	<input type="checkbox"/> Special VFR	<input type="checkbox"/> Special IFR	<input type="checkbox"/> VFR Flight Following	<input type="checkbox"/> Cruise
<input checked="" type="checkbox"/> VFR	<input type="checkbox"/> IFR	<input type="checkbox"/> VFR On Top	<input type="checkbox"/> Traffic Advisory	<input type="checkbox"/> Unknown / NA

Airspace where the accident/incident occurred (Check all that apply)

<input type="checkbox"/> Class A <input type="checkbox"/> Class B <input type="checkbox"/> Class C <input type="checkbox"/> Class D <input type="checkbox"/> Class E	<input checked="" type="checkbox"/> Class G <input type="checkbox"/> Demo Area <input type="checkbox"/> Warning Area <input type="checkbox"/> Prohibited Area <input type="checkbox"/> Restricted Area	<input type="checkbox"/> Military Operations Area (MOA) <input type="checkbox"/> Airport Advisory Area <input type="checkbox"/> Jet Training Area <input type="checkbox"/> TRSA <input type="checkbox"/> FAR 93	<input type="checkbox"/> Special <input type="checkbox"/> Air Traffic Control Area <input type="checkbox"/> Unknown	Altitude of In-Flight Occurrence: <u>0</u> ft msl
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WEATHER INFORMATION AT THE ACCIDENT/INCIDENT SITE

Source of Pilot Weather Information

(Check all that apply)

<input type="checkbox"/> National Weather Service	<input type="checkbox"/> Company
<input type="checkbox"/> Flight Service Station	<input type="checkbox"/> Military
<input type="checkbox"/> TV/Radio	<input checked="" type="checkbox"/> Internet
<input checked="" type="checkbox"/> Automated Report	<input type="checkbox"/> None
<input type="checkbox"/> Commercial Weather Service (DUATS)	<input type="checkbox"/> Unknown
<input checked="" type="checkbox"/> On-Board Weather	

Weather Observation Facility

Facility ID: U42
 Observation Time: 1230
 Time Zone: MST
 Distance from Accident Site: 0 nm
 Direction from Accident Site: 0 degrees true

Basic Conditions

☒ VMC
☐ IMC
☐ Unknown

Light Condition

☐ Dawn ☐ Dusk ☐ Dark Night ☐ Unknown
☒ Day ☐ Night ☐ Bright Night

Sky/Lowest Cloud Condition

☐ Clear ☐ Thin Broken
☐ Few ☐ Thin Overcast
☐ Partial Obscuration ☒ Unknown
☐ Scattered

Lowest Cloud Condition Height

12,000 ft agl

Ceiling

☐ None (Clear) ☐ Obscured
☐ Broken ☐ Indefinite
☒ Overcast ☐ Unknown

Ceiling Height

12,000 ft agl

Temperature: 17 (C) or _____ (F)

Dew Point: 7 (C) or _____ (F)

Altimeter Setting: 29.88 in. Hg
or _____ MB

Wind Direction

☐ Variable

-or-
Direction: 160 degrees true

Wind Speed

☐ Calm
☐ Light and Variable

-or-
Speed: 12 kts

Wind Gusts

☒ Not Gusting

-or-
Speed: _____ kts

Visibility 10 miles

RVR: _____ feet

RVV: _____ miles

Density Altitude: 5,300 ft

Intensity of Precipitation

☐ Light
☐ Moderate
☐ Heavy
☒ N/A
☐ Unknown

Type of Precipitation (Check all that apply)

<input checked="" type="checkbox"/> None	<input type="checkbox"/> Drizzle	<input type="checkbox"/> Freezing Rain
<input type="checkbox"/> Rain	<input type="checkbox"/> Ice Pellets	<input type="checkbox"/> Snow Shower
<input type="checkbox"/> Snow	<input type="checkbox"/> Snow Pellets	<input type="checkbox"/> Ice Pellets Shower
<input type="checkbox"/> Hail	<input type="checkbox"/> Snow Grains	<input type="checkbox"/> Freezing Drizzle
<input type="checkbox"/> Rain Showers	<input type="checkbox"/> Ice Crystals	

Restriction to Visibility (Check all that apply)

<input checked="" type="checkbox"/> None	<input type="checkbox"/> Fog
<input type="checkbox"/> Blowing Dust	<input type="checkbox"/> Ground Fog
<input type="checkbox"/> Blowing Sand	<input checked="" type="checkbox"/> Haze
<input type="checkbox"/> Blowing Snow	<input type="checkbox"/> Ice Fog
<input type="checkbox"/> Blowing Spray	<input type="checkbox"/> Smoke
<input type="checkbox"/> Dust	<input type="checkbox"/> Unknown

Icing Forecast

Amount	Type
<input checked="" type="radio"/> None	<input type="radio"/> N/A
<input type="radio"/> Trace	<input type="radio"/> Rime
<input type="radio"/> Light	<input type="radio"/> Clear
<input type="radio"/> Moderate	<input type="radio"/> Mixed
<input type="radio"/> Severe	<input type="radio"/> Unknown
<input type="radio"/> Unknown	

Icing Actual

Amount	Type
<input checked="" type="radio"/> None	<input type="radio"/> N/A
<input type="radio"/> Trace	<input type="radio"/> Rime
<input type="radio"/> Light	<input type="radio"/> Clear
<input type="radio"/> Moderate	<input type="radio"/> Mixed
<input type="radio"/> Severe	<input type="radio"/> Unknown
<input type="radio"/> Unknown	

Turbulence

Type (Check all that apply)	Severity
<input checked="" type="checkbox"/> None	<input type="checkbox"/> Light
<input type="checkbox"/> Clear Air	<input type="checkbox"/> Moderate
<input type="checkbox"/> Terrain-Induced	<input type="checkbox"/> Severe
<input type="checkbox"/> Convective Turbulence	<input type="checkbox"/> Extreme

NOTAMs (D and FDC), AIRMETs, SIGMETs, PIREPs in effect at the time of the accident/incident:

None that were applicable.

DAMAGE TO AIRCRAFT AND OTHER PROPERTY**Aircraft Damage**

- ☐ None ☐ Substantial
☐ Minor ☒ Destroyed
 ☐ Unknown

Aircraft Fire

- ☒ None ☐ Both Ground and In-Flight
☐ In-Flight ☐ Fire at Unknown Time
☐ On-Ground ☐ Unknown

Aircraft Explosion

- ☒ None ☐ Both Ground and In-Flight
☐ In-Flight ☐ Explosion at Unknown Time
☐ On-Ground ☐ Unknown

Description of Damage to Aircraft and Other Property *(Use additional sheet if necessary)*

Dynamic rollover caused the rotor to chop off the tail boom close to the fuselage as well as chop off the tail rotor and vertical/horizontal stabilator. The plexiglass in the front of the cockpit was totally destroyed/gone, the skids were bent up, and the plexiglass for both right side doors was broken/destroyed (I think). The main rotors were completely destroyed and bent up (with missing pieces).

NARRATIVE HISTORY OF FLIGHT *(Please type or print in ink)*

Describe what occurred in chronological order, including circumstances leading to and nature of accident/incident. Describe terrain and include wreckage distribution sketch if pertinent. Attach extra sheets if needed. State departure time and location, services obtained, and intended destination. Provide as much detail as possible.

I met my two students Rebecca and Richard (Rebecca was a permanent student and Richard is her husband who was interested in flying and wanted a demo flight) at South Valley Regional Airport (U42) 30 minutes before our flight. Rebecca had flown with me three times previously in the R-22. She asked if we could do a demo flight in the R-44 and have her husband fly for 30 min and she would fly for 30 min. I gave them both the SFAR 73 required training for the R-44 on the white board, signed an endorsement for Richard, and told him to put the endorsement in his pocket. I had Rebecca sit in on the class as well, even though I had already given her the SFAR 73 training on a previous day prior to our first flight.

We started the engines around 12:30 hours on Saturday, 16 April at U42. I flew her husband for the first 30 minutes and then had them switch seats so that Rebecca could fly the last 30 minutes of the hour-long scheduled flight. I gathered weather by checking my Foreflight and by getting an update once we started the engines from AWOS-3 (134.425). Weather was not a factor. I departed off of Alpha Taxiway, parallel 16 for right closed traffic. On right downwind, I made a radio call that I was departing the pattern to the Northwest toward the white water towers. We departed and I explained and demonstrated each of the flight controls to Richard and what each flight control did. I then had him take the controls and I stayed on the controls as well to monitor them. I had him maintain 60 knots and about 5,500 feet and had him do a left 360 turn and then a right 360 degree turn. I then had him fly toward Garfield Stack / Saltair and had him descend to 5,100 feet so he could try to maintain airspeed and descend. I then had him climb back up to 5,500 feet and fly back toward South Valley Regional Airport (U42). Once we got to South Valley Regional Airport (U42), I took the controls completely and had Richard take his hands off the controls. I then demonstrated an auto-rotation to Alpha Taxi-Way (parallel 16) with power recovery to Hotel 4 (which is a painted helipad on Alpha Taxiway). I then told Richard to get back on the controls with me and I let him try hovering for a few minutes while I monitored the controls (kept my hands on the controls and added corrections while he attempted hovering with my direction).

I then had Richard and Rebecca switch seats so that Rebecca could get into the pilot's seat and Richard could get in the back. I had Rebecca come up to a hover (with me monitoring controls with my hands on the controls), and then I did clearing turns to check for traffic at a hover (me doing the clearing turns and Rebecca following through with me on the controls). I then told Rebecca to take off on Alpha Taxiway parallel 16 for right closed traffic. I assisted her takeoff by adding inputs while being on the controls with her. I then had her do two standard traffic patterns at 60 knots and 5,200 feet. I had her practice a standard approach with each traffic pattern. I had to stay on the controls the whole time to make corrections and to keep the aircraft in a level attitude. I then had Rebecca practice hovering for a few minutes. Rebecca is still new and cannot yet hover without assistance so I stayed on the controls with her and made corrections to maintain a safe and level attitude. Rebecca kept drifting to the right and then over correcting with too much left cyclic. I then told her that I had the controls and told her to lightly follow through with me on the controls. As I explained to her and showed her how little left cyclic correction was needed when drifting to the right, she kept pushing the cyclic to the left hard - over controlling the aircraft. I let her know that I was flying and to just gently hold her hands on the controls to see how small my cyclic inputs were. I demonstrated this once again, and then told her that she had the controls (using three-way positive transfer of controls). I stayed on the controls lightly to monitor her control movements.

At this time she began drifting to the right, then our right skid contacted the ground, we had a pivot point, a rolling motion, exceeded the critical angle, had power/collective applied, and experienced dynamic rollover - rolled the helicopter onto its right side. It happened so quickly that I was unable to react or put any control inputs in to stop the roll. I pulled the mixture off, turned the fuel valve and battery off and we exited (unbuckled Rebecas seatbelt, took her hand and helped her out - I also helped Richard by grabbing his hand).

RECOMMENDATION (How could this accident/incident have been prevented?)

Operator/Owner Safety Recommendation

In hind site, I believe that Rebecca had a strong fear of being close to the ground, and her fear caused her to put in wrong or innapropriate control inputs. I could have spent more time with Rebecca at altitude getting her more used to the controls and I could have been more aware of her fear and reactions when closer to the ground. I also could have, and should have, had her practice hovering at 10 to 15 feet instead of at 5 feet.

MECHANICAL MALFUNCTION/FAILURE (If more space is needed, continue on separate sheet)Was there Mechanical Malfunction/Failure? ☐ Yes ☒ No*(If yes, list the name of the part, manufacturer, part no., serial no., and describe the failure.)***Total Time/Cycles
On Part**

_____ Hours

_____ Cycles

**Time Since This Part
Inspected/Overhauled**

_____ Hours

FUEL & SERVICES INFORMATION**Fuel on Board at Last Takeoff***(Convert from pounds, as necessary)*

42 _____ Gallons

Fuel Type☐ 80/87☐ 115/145☐ Jet B☐ Other, specify _____☒ 100 Low Lead☐ Jet A☐ JP8☐ 100/130☐ Jet A-1☐ Automotive**Other Services, if Any, Prior to Departure****EVACUATION OF AIRCRAFT**Was an emergency evacuation of the aircraft performed? ☒ Yes ☐ No**Method of Exit** – Describe how the occupants exited and how many occupants evacuated each location

I exited through the missing front Plexiglass. I then stood over Rebecca who was still strapped in, undid her seatbelt, asked her to grab my hand, and assisted her to a standing position. Richard had unbuckled his own seatbelt by this time, and I asked for his hand and helped pull him up to a standing position. I then had them get 100 feet away in case there was a chance of a post-crash fire.

OTHER AIRCRAFT – COLLISION (If air or ground collision occurred, complete this section for other aircraft)**Aircraft Registration Number**

Manufacturer: _____**Model:** _____**Damage to Other Aircraft**☐ Destroyed☐ Minor☐ Substantial☐ None**Registered Owner of Other Aircraft**

Name: _____

City: _____

State: _____ ZIP: _____

Country: _____

Pilot of Other Aircraft

Name: _____

City: _____

State: _____ ZIP: _____

Country: _____

ADDITIONAL INFORMATION (Please type or print in ink)

Use this space if additional space is needed for any answers.

I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Date of this Report

04/20/2022

mm/dd/yyyy

Name of Pilot/Operator: Shane Robert Schmutz (CFII)

Signature: _____

-- or -- ☒ Check here to electronically sign this document

If a Person Other than Pilot/Operator is Filing Report

Name: _____

Title: _____

Signature: _____

-- or -- ☐ Check here to electronically sign this document

FOR NTSB USE ONLY

NTSB Accident/Incident No.

WPR22LA157

Reviewed by NTSB Regional Office

AS-WPR

Name of Investigator

Eric M. Gutierrez

Date Report Received

4/20/2022