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

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

BASI	INFORMA	TION										
	t/Incident Loc					CONTRACTOR OF THE PARTY OF THE	ccident/Inci	dent Date/	Time			
Nearest (City/Place: Peta	luma			State: C	DA D	ate: 07	/10/2021	Lo	cal Time:	12:17pm	
ZIP: 94	954	country: US	A				mm/	ddyyyy	- 10 Marie	SE CONTRACTOR	the second con-	
Latitude:	N38°15.47'		Longitude: W12	22°36.32'					In	me Zone:	PDI	
	(Enter in decima	l degrees or d	legrees:minutes:se	conds)		C	ollision with	Other Air	craft: C	Midair	OOn-grou	nd • None
AIRCE	RAFT INFO	RMATIO	N			32						
80	ation Number:							ipped and Ce cial Space Fli				
	cturer: Cessr	ıa					Unmann	ed Aircraft	Mark Control			
Model:							Maximum G	San Contract Contract			lbs	
Serial N	umber: 1728	0404				1	Weight at Ti	me of Accid	lent/Incid	dent: 23	86	lbs
Year of	Manufacture:	1998				1	Number of S	eats: 4	.,	Flight Cr	ew Seats: 2	
Amateu	r-Built: OYes		Kit/Plans Ma				Cabin Crew Se	ats:		Passenge	r Seats: 2	
	⊙No	(Original Design	8		ı	Number of E	ngines: 1				
O Airpla O Balloo O Blimp O Glide O Gyrop O Helico O Powe	on /Dirigible r olane opter red Lift	Check all t Standar Norma Aerob Balloo Comm	d Special al Restrict atic Limite m Provisi auter Specia out Experi	cted d ional l Flight mental	_	☐ Tricycle ☐ Amphibian ☐ Emergency	apply) etractable	Failwheel High Skid Skid Ski	O Reci O Turb O Turb O Turb O Turb O Elect	o Jet o Fan tric	O Liqu O Solic O Hyb: O Non O Unk:	nown
O Rocke	Late and the second sec	☑ Utility		l Light-Spor mental Ligh	Name and Address of the Owner o	Hull		Ski/Wheel	N. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	ATTACHMENT ATT	(Reciprocati	A Control of the Control
OUnkn	own	Certificate	of Authorization		100000	Other Laund	th/Recovery S	ystem	OCarb	uretor	● Fuel	-Injected
239		None		Unknown		■ None	30.	Unknown				<u> </u>
Engine	Engine Manufa	cturer	Engine Model/Series		Serial !	acturer's Number	Date of Mfg. mm/dd/jjjy		power or	Total Time (hours)	Inspection (hours)	(hours)
Eng. 1 Eng. 2	Lycoming		IO-360-L2A		L-27130	0-51A	03/19/1997	160		6158.0	67.8	1764.2
Eng. 3							2	3 (1)				
Eng. 4	·	-		100			1	C 50	- 2			
O100-H OAAIP OAnnu	O Cone		ction	100000000000000000000000000000000000000	turer:		ble Pitch djustable	1000	eller 2 nfacturer: _	O	Fixed Pitch Controllable Ground Adju	
Date Last Inspection: 05/26/2021 mm/dd/yyy Airframe Total Time: 8569.3 hrs hours measured at (Select one) OLast Inspection Time of Accident/Incident			hrs	ELT Installed: Yes No Additional Equipment (Check all that apply) If Yes: ELT Manufacturer: Pointer, Inc. Angle of Attack Indicator					t apply)			
Type of Annu Condi Manu Other Conti	Maintenance l	Program (Se built only) ion Program tion Program	elect one)	Was ELT Was ELT Did ELT If activat Did ELT	OC126 still mo still con Activate ted: Aid in L	(121.5 MHz) OC (406 MHz) unted in aircraft' inected to antenn ? OYes ONo ocating Aircraft:	? • OYes ON a? • OYes ON	Dat	a Recorder etronic Flig etronic Mu etronic Prindheld GPS ds Up Disposard Wea ellite Track	ght Bag or ultifunction mary Fligh S play ther sing Devic	nt Display	evice
⊙ None	ifion of Fire Ex ify: (No fire ext was used.)	inguishing		If not act		☐ Impact Damage ☐ Fire Damage ☐ Battery Expir		□Vid	l Warning eo Record er, Specify	ing Device		

OWNER/OPERATOR INFORMA	ATION	50				
Registered Aircraft Owner		City: Wilmington	en l			
Name: Christiansen Aviation Inc		State: DE	ZIP: 19803-2973			
Fractional Ownership Aircraft: O Yes O	No	Country: USA				
Operator of Aircraft Same As Re	gistered Owner	Same Address as Registered	Owner			
Name: San Carlos Flight Center		City: San Carlos				
Doing Business As: San Carlos Flight Ce	nter	State: CA	ZIP: 94070			
Air Carrier/Operator Designator (4 Characte	er Code): N/A	Country: USA				
Operating Certificates Held (Check all that apply)	Regulation Flight Conducted Un	- I	AR 121, 125, 129, 135			
☑ None ☐ Flag Carrier Operating Certificate (FAR 121) ☐ Supplemental ☐ Air Cargo ☐ Foreign Air Carriers (FAR 129)	OFAR 91 OFAR 129 OFAR 0FAR 103 OFAR 133 OFAR 0FAR 121 OFAR 135 OFAR 0FAR 125 OFAR 137 OFAR	431 Non-Scheduled or Air Taxi 435 437 Passenger	O Domestic i O International			
☐ Rotorcraft External Load (FAR 133) ☐ Commuter Air Carrier (FAR 135)	OFAR 91 Special Flight ONon-US, Commercial	O Cargo O Mail Contract Only				
□ On-Demand Air Taxi (FAR 135) □ Commercial Air Tour (FAR 136) □ Agricultural Aircraft (FAR 137)	O Non-US, Non-commercial O Public Aircraft (Select one)	Purpose of Flight for FAR (Select one)	91, 103, 133, 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	O Armed Forces	O Aerial Application O Aerial Observation O Air Drop O Air Race/Show O Banner Tow O Business O Executive/Corporate	Firefighting O Unknown OFlight Test OGlider Tow Instructional Other Work Use Personal Positioning			
Revenue Sightseeing Flight OYes O No	Air Medical Flight O Yes ⊙ No	O External Load O Ferry	Skydiving			
AIRPORT INFORMATION (Fill in	if accident/incident occurred on app	proach, landing, takeoff, departure	e, or within 3 miles of an airport)			
Airport Name: Petaluma Muni						
Airport Identifier: O69		Distance From Airport Center Direction From Airport: N/A				
Proximity to Airport: O Off Airport/Airstrit	On Airport/Airstrip ON/A	Airport Elevation: 90	degrees true			
The state of the s		Airport Lievation. 50	11. 11151			
Runway Information Runway ID: 29 (L/R/C) Length: 36 Runway/Landing Surface (Check all that a Grass/Turf Maca Concrete Gravel Meta Snow	(pply) dam □ Water l/Wood	Condition of Runway/Landing	ompacted Water-Calm usted Water-Choppy y Water-Glassy et Wet			
Approach/Departure Segment (Select one))					
OTaxi OVFR Departure OTakeoff OIFR Departure Proc OInitial Climb	OOn Instrument Ap	OBase OFinal	Low Approach Go Around Aborted Landing (after touchdown) Unknown			
IFR Approach (Check all that apply)		VFR Approach (Check all that a	pply)			
None		□None				
□ADF/NDB □ PAR □SDF □ Sidestep □VOR/TVOR □ ILS □VOR/DME □ Localizer Only □TACAN □ LOC-back course □RNAV	☐MLS ☐Practice ☐LDA ☐GPS ☐ASR ☐Visual ☐Contact ☐Circling ☐Unknown	☐ Traffic Pattern ☐ Straight-In ☐ Valley/Terrain Following ☐ Go Around ☐ Full Stop	Stop and Go Touch and Go Simulated Forced Landing Forced Landing Precautionary Landing Unknown			

"FLIGHT CREWMEM	BER 1" INF	ORMATIC	N							
"Flight Crewmember 1" Responsibilities at the Time of Accident/Incident O Pilot O Co-Pilot O Student Pilot O Flight Instructor O Check Pilot O Flight Engineer O Other Flight Crew										
"Flight Crewmember 1" wa	s pilot flying	☑Yes □ N	lo .							
"Flight Crewmember 1" Ide	ntification									
First Name: Raymond				c	ity of Res	idence: S	an Francis	со		
Middle Initial:					tate: CA			ZIP: 94107		
Last Name: Shiau					ountry:	IIQA			•	
The state of the s	Accident/Incide	nt 20	Date of B		ountry.		m/dd/yyyy			37
Age at time of	Accidentincia		ertificate Num							
D CT :	16.00	10.0	ermneate Num			e de				
Degree of Injury None O Fatal	Seat Occup O Left	O Front	O Unknow	170	traint Ty	0000		1	nflatable R	estraints
O Minor O Unknown	O Right	O Rear	Осшано	" '	Available		Used O None		Not Inst	alled
O Serious	O Center	O Single			O None O Lap on	lv	O Lap onl	y	Installed	
Pilot Certificate(s) (Check al.	that apply)				3-point	t	⊙3-point		Not Dep	
□ None □ Flight I	12000 10000 100 100 100 100 100 100 100	Commercial	US M	litary	O 4-point		O 4-point		☐ Deploye ☐ Unknow	
☐ Private ☐ Recreat		Airline Transp Flight Enginee		n	O 5-point O 5-point Unknown				-	
Student Sport	, 	I light Dagmee	*		27		177.5			
Principal Occupation	fedical Certifi	cate		Med	lical Cert	ificate Va	lidity	1	Date of Las	t Medical
O Pilot	None (Class 3		OM	Vithout lim	itations/wai	vers OU	nknown	DOWNSON DOWNSON	
			ense (Sport Pilot		Vith limitat pecial Issu	ions/waiver	ON	/A	10/11/201 mm/dd/yy	The state of the s
O Unknown Medical Certificate Limitati		Unknown		Us	peciai issu	ance		5	mine da yy	,,
	ons									
Must wear corrective lenses.										
Medical Certificate Special	Issuance									
And the control of th										11
D . 47 . PH 1. D .			D							
Date of Last Flight Review or Equivalent, Including		6.33.25	t Review Airo	raft						
FAR 121/135 Checks:	03/06/2021		Cessna							
SAME STATE OF THE	mm/dd/yyyy	Model	: 152							
Airplane Rating(s)	Other Aircra		Instrum	ent Rating(s))	Instructo	r Rating(s)			
(Check all that apply)	(Check all that a	apply)	900 Miles	l that apply)		(Check all	that apply)			5X1560
☐ None ✓ Single-Engine Land	✓ None □ Airship		✓ None Airpla			// None	e Single-Eng		Instrument A Instrument I	
Single-Engine Sea	Balloon		Helico	pter			e Multi-Engir		Helicopter	tencopter
■ Multiengine Land	Glider		☐ Power	ed Lift	☐ Gyroplane ☐ Glider					
☐ Multiengine Sea	☐ Gyroplane ☐ Helicopter		0.40.000000			Powere	d Lift		Sport	
	□ Powered Lif	t								
Type Ratings						Student E	ndorsemen	its (Include a	lates)	
none						N/A				
			Aimles		-		1980-0198-0			
Flight Time (Enter appropriate		This Make	Airplane Single	Airplane	1968000	Inst	rument	OKENIAN EXPENSE	75 (B) (F) (F)	Lighter
number of hours in each box)	Aircraft	& Model	Engine	Multiengine	Night	Actual	Simulated	Rotorcraft	Glider	Than Air
Total Time	127	15	127	0	3	7/20	4	0	0	0
Pilot in Command (PIC)	47	15	47	0	0	7.70	0	0	0	0
Time as Instructor	0	0	0	0	0	7.70	0	0	0	0
This Make/Model		9)(3)	2.02		0	1500	0	2000	OD.	
Last 90 Days	20	10	20	0	0	1000	0	0	0	0
Last 30 Days	7	2	7	0	0	_	0	0	0	0
Last 24 Hours	,	0	0	0		0	0	0	0	0
				5						

"FLIGHT CREWMEME	BER 2" INFOR	MATION	1							
	O Student Pilot C	Flight Insti	ructor O	dent Check Pilot	OFlig	ht Engineer	O Other F	light Crew		- 15
"Flight Crewmember 2" was		es No	0							- 3
"Flight Crewmember 2" Iden	tification									
First Name:				Ci	ity of Re	sidence:				
Middle Initial:				St	tate:		Z	IP:		
Last Name:				_ C	ountry:					
Age at time of A	ccident/Incident:	10	Date of Bir	th:		mm	/dd/yyyy			
		Certif	ficate Numb	er:				20		
Degree of Injury	Seat Occupied			Res	traint T	ype		1	nflatable R	estraints
O Minor O Unknown O Right C		Front Rear Single	Rear		Availabl O None		Used O None		☐ Not Installed	
Pilot Certificate(s) (Check all t					O Lap o		O Lap only O 3-point	t	☐ Installed ☐ Not Dep	The same of the sa
None ☐ Flight Ins ☐ Private ☐ Recreatio ☐ Student ☐ Sport	nercial e Transport Engineer	US Mil	O E maint			O 4-point O 5-point O Unknow	בר	□ Deploye □ Unknow	d	
Principal Occupation M	edical Certificate			Med	dical Ce	rtificate Val	idity	20 1	Date of Las	Medical
O Other O	None O Clas Class 1 O Driv Class 2 O Unk	er's License	e (Sport Pilot o	only) OV	O Without limitations/waivers O Unknown O With limitations/waivers O N/A				mm/dd/yy) ₂)
Medical Certificate Limitatio					•			3.8		- 28
Medical Certificate Special Is	suance									
2 0 20 20 2				2						
Date of Last Flight Review or Equivalent, Including		Flight R	eview Airci	raft						
FAR 121/135 Checks:		Make:								
	mm/dd/yyyy	Model:							4.77	
	Other Aircraft Ra		Instrument Rating(s)			Instructor Rating(s)				
(Check all that apply)	(Check all that apply)		The second second	that apply)	V 100 100 100 100 100 100 100 100 100 10				20000000	
☐ None ☐ Single-Engine Land	☐ None ☐ Airship		None Airplan	10		■ None □ Instrument Airplane □ Airplane Single-Engine □ Instrument Helicopt				
Single-Engine Sea	Balloon		Helicon		☐ Airplane Multi-Engine				Helicopter	
	Glider		☐ Powere			Gyroplan	e		Glider	
	☐ Gyroplane ☐ Helicopter					■ Powered	Lift		Sport	
	☐ Powered Lift		la.							20
Type Ratings						Student En	dorsement	s (Include d	ates)	
					,					
Flight Time (Enter appropriate number of hours in each box)		s Make Model	Airplane Single Engine	Airplane Multiengine	Night	The state of the s	ument Simulated	Rotorcraft	Glider	Lighter Than Air
Total Time		1				100				5
Pilot in Command (PIC)					3					
Time as Instructor										
This Make/Model										
Last 90 Days						- 1				70
Last 30 Days Last 24 Hours					1					

ADDITIONAL FLIGH	IT CREWMEMBE	ERS (Exclusive	ve of cabin cre	ew, complete	the followin	g information)	i. Harage	
Crew Name and Addres	5	111177779	177.16.24.000	11		Seat Occupie	d	Injury
First Name: Middle Initial: Last Name:	L		ence:2			O Left O Center O Right	OFront ORear OSingle OUnknown	O None O Minor O Serious O Fatal O Unknown
Private	Flight Instructor Recreational Sport	Comment of the state of	sport For	the Time	hrs	Restraint Typ Available O None O Lap Only O 3-point O 4-point O 5-point O Unknown	Used O None O Lap Only O 3-point O 4-point O 5-point	Inflatable Restraints Not Installed Installed Not Deployed Deployed Unknown
Crew Name and Addres	s					Seat Occupie	d	Injury
First Name: Middle Initial: Last Name:	5			ZIP:		OLeft OCenter ORight	OFront ORear OSingle OUnknown	O None O Minor O Serious O Fatal O Unknown
☐ Private	☐ Flight Instructor☐ Recreational☐ Sport	Commercial Airline Trans	sport For	20 7 -20		Restraint Typ Available O None O Lap Only O 3-point O 4-point	Used O None O Lap Only O 3-point O 4-point	Inflatable Restraints Not Installed Installed Not Deployed Deployed
Accident/Incident Aircr			Accident/Inci		hrs	O 5-point O Unknown	O 5-point O Unknown	Unknown
PASSENGER(S) / O	THER PERSONI	NEL (Include	cabin crew; co	ontinue on s	eparate shee	t if necessary)		9-
Name and Address			Seat	Injury	Restraint T	уре	Inflatable Restraints	Age
First Name: Yinuo Middle Initial: Last Name: Zhang O Crew	City: San France State: CA ZII Country: USA Passenger	94107	OLeft OCenter ORight OUnknown Row: Back	None Minor Serious Fatal Unknown	Available ONone OLap Only Ø3-point O4-point O5-point OUnknown	⊙ 3-point O 4-point O 5-point	☑ Not Installed ☐ Installed ☐ Not Deployed ☐ Deployed ☐ Unknown	Under 5 years If Under 5, O Child Restraint O Lap-Held O Unknown
First Name: Riyaz Middle Initial: Last Name: Faizullabhoy OCrew	City: San France State: CA ZII Country: USA Passenger		OLeft OCenter ORight OUnknown Row: From	None OMinor OSerious OFatal OUnknown	Available ONone OLap Only O3-point O4-point O5-point OUnknown	O 4-point O 5-point	✓ Not Installed ☐ Installed ☐ Not Deployed ☐ Deployed ☐ Unknown	Under 5 years
First Name: Yuexin Middle Initial: Last Name: Xiang O Crew	City: Davis State: CA ZII Country: USA Passenger	9: 95616 O Other	⊙Left OCenter ORight OUnknown Row: Bag	None OMinor OSerious OFatal OUnknown	Available ONone OLap Only O3-point O4-point O5-point OUnknown	⊙ 3-point ○ 4-point ○ 5-point	✓ Not Installed ☐ Installed ☐ Not Deployed ☐ Deployed ☐ Unknown	Under 5 years If Under 5, O Child Restraint O Lap-Held O Unknown
First Name: Middle Initial: Last Name: O Crew	City: State: ZII Country: OPassenger	O Other	OLeft OCenter ORight OUnknown Row:	ONone OMinor OSerious OFatal OUnknown	Available ONone OLap Only O3-point O4-point O5-point OUnknown	O 3-point O 4-point O 5-point	□ Not Installed □ Installed □ Not Deployed □ Deployed □ Unknown	Under 5 years

FLIGHT ITINERARY	INFORMATION	J		27				
Last Departure Point		e of Departure	Destination	on.		Type Fligh	t Plan Filed	
Aimort ID: KSQI			Airport ID:		⊙ None		O VFR/IFR	
City: San Carlos	Time	11:11am	m City: Whitethorn			O Company	VFR O IFR	
		Zone: PDT	State: CA			O Military	VFR O Unknown	
Country: USA		Country: U	Consultation of the Consul		Activated?	OYes ONo OUnknown		
Type of ATC Clearance/Ser	rvice (Check all that a	apply)						
□ None □	Special VFR IFR	☐ Spe	ecial IFR R On Top		 ✓ VFR Flight Follo ☐ Traffic Advisory 		☐ Cruise ☐ Unknown / NA	
Airspace where the acciden	t/incident occurred	(Check all that	apply)	101 100			Altitude of In-Flight	
	Class G		itary Operations		Special	the second second	Occurrence:	
	Demo Area Warning Area		port Advisory A Training Area	rea	Air Traffic Cont	rol Area	N/A ft msl	
	Prohibited Area	□ TR			_ Canadowa		1071	
□ Class E	Restricted Area	☐ FAI	R 93					
WEATHER INFORM		ACCIDEN	T/INCIDEN					
Source of Pilot Weather In	formation				servation Facility			
(Check all that apply) National Weather Service	Com	nanar		Facility ID:				
Flight Service Station	☐ Milit			Observation T	ime: 12:15pm			
TV/Radio	Inter			Time Zone:	PDT			
✓ Automated Report ✓ Commercial Weather Service	None (DUATS) Unkr			Distance from	Accident Site: 0		nm	
On-Board Weather	(DOMIS) CHAI	IOWII		Direction from	Accident Site: N/A		degrees true	
Basic Conditions		Light Conditi	ion	0.00000000				
⊙ VMC		ODawn	ODusk	ODar	k Night OUn	known		
OIMC		⊙ Day	ONight	OBri	ght Night			
O Unknown	12 T				Table to the state of the state of		Bernard Land	
Sky/Lowest Cloud Condition O Clear	O Thin Broken	Ceiling None (Clear)		Obscured	Temperature:	.31	(C) or(F)	
	O Thin Overcast	O Broken O Indefinite			Dew Point: 10 (C) or(F)			
100000000000000000000000000000000000000	OUnknown	O Overcast O Unknown			Altimeter Setting: 29.93 in Hg			
O Scattered	2002				Attimeter sett	or or		
Lowest Cloud Condition H	leight ft agl	Ceiling Heigh	t	ft agl				
Wind Direction	Wind Speed	36	Wind Gusts	10	Visibility	10	miles	
☑ Variable	□ Calm		Not Gustin	ng	RVR		feet	
3(6)	Light and Varia	ble						
-or-	-or-		-01-		RVV		miles	
Direction: degrees true	Contract and a second and a second	kts	Speed:	kts	Density Altitu	CATAL VICTORIA	ft	
Intensity of Precipitation	Type of Precipita	Control of the Contro				The state of the s	heck all that apply)	
OLight OModerate	☑ None □ Rain	☐ Drizzle ☐ Ice Pellets	☐ Freezin ☐ Snow S		✓ None ☐ Blowing Du	et D	Fog Ground Fog	
OHeavy	Snow	Snow Pellets		ets Shower	Blowing Sar	10 Y	Haze	
⊙N/A	☐ Hail	Snow Grain		g Drizzle	☐ Blowing Sn		ce Fog	
OUnknown	Rain Showers	☐ Ice Crystals			Blowing Sp. Dust		Smoke Unknown	
Icing Forecast		Icing Actual			Turbulence			
Amount Type		Amount	Туре		Type (Check a	ll that apply)	Severity	
⊙ None ⊙ N/A		O None O Trace	⊙N/A		✓ None ☐ Clear Air		☐Light ☐Moderate	
O Trace O Rime O Light O Clear		O Light	O Rime		Terrain-Indu	iced	Severe	
O Moderate O Mixed	5	O Moderate	O Mixe		Convective '		Extreme	
O Severe O Unknow	wn	O Severe	O Unki	nown				
OUnknown		OUnknown						
NOTAMs (D and FDC),	AIRMETS, SIGM	ETs, PIREP	s in effect at	the time of t	he accident/inci	dent:		
FDC 1/1639 O69 IAP PET FDC 0/9162 O69 ODP PE								

DAMAG	AMAGE TO AIRCRAFT AND OTHER PROPERTY								
Aircraft Da	image	Aircraft Fire		Aircraft Explosi	on				
O None	 Substantial 	⊙ None	O Both Ground and In-Flight	⊙ None	O Both Ground and In-Flight				
O Minor	 Destroyed 	O In-Flight	O Fire at Unknown Time	O In-Flight	 Explosion at Unknown Time 				
	O Unknown	On-Ground	O Unknown	On-Ground	O Unknown				

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

Damage to the left main landing gear strut. Rippling and buckling on the underbelly of the aircraft. The wing strut has buckling. The nose strut is bent.

The wings are able to move freely from the cabin, causing concern about a crack in the wing spar.

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 and location, services obtained, and intended destination. Provide as much detail as possible.

On the morning of the flight, I had a contact lens malfunction and decided to switch to using my glasses for the day, which I wear every night and as a backup. This was my first time flying with glasses instead of contact lenses, however both correct for my significant nearsightedness and astigmatism (-6 power and -2.25 cylinder in both eyes). I also did a weight & balance (especially since it was my first time flying with more than one passenger), and got an updated weather briefing via Foreflight. It looked like a go for the flight.

My passengers and I met at the airport (KSQL), and I proceeded with the preflight inspection, requesting fuel up to 49 gal as per my weight & balance calculations. I requested VFR flight following from San Carlos Ground to 0Q5 (Shelter Cove), performed the runup, and departed KSQL at 11:11am PDT. We transitioned overhead KOAK and proceeded northeast-bound toward Sausalito and Point Reyes en route to our destination, staying below the Bravo airspace as directed by Norcal Approach. As we passed Mt Tamalpais, we began our climb up to the selected cruise altitude of 8,500'.

At around 5,500' near Point Reyes, we experienced a partial electrical failure which caused the intercom. radio, transponder, flaps, and some engine instruments (fuel flow indicator, oil temperature & pressure gauges, fuel quantity gauges, EGT) to suddenly go offline. The GPS, clock/voltmeter, and ammeter were still online, and the voltmeter and ammeter were showing normal readings. I cycled the avionics master and master switches off and on a few times (waiting a few seconds before turning them back on), with no improvement. At that point, I decided to divert to the nearest untowered airport, which was Petaluma (KO69), and began our descent. During the descent, we occasionally heard short "blips" from the intercom, followed by nothing - this happened about three or four times. One additional small distraction was that the Bose A20 headset I was wearing would turn off active noise cancellation every 5 minutes since it didn't detect any audio input (a feature designed to save battery life), and engine noise would abruptly become louder until I manually turned it back on again. I briefed my passengers to help look for traffic as our radios were offline and I was unable to make or listen to position reports. Once we were at 2090', 1000' above pattern altitude, we circled overhead O69 twice to visually verify other landing traffic was using Runway 29, and that the windsock was favoring 29 as well. After establishing no conflicting traffic, I performed a teardrop entry into right downwind for Runway 29, and planned for a no-flap landing (which I have practiced and executed successfully multiple times in the past, as well as recently). I turned base and then final, overshooting final initially but lining up with the runway on short final. Due to having no flaps, I recall forward visibility over the nose was poor. As I passed over the runway threshold, I began my roundout and flare, with a crosswind from the left. During the flare, I felt the aircraft start to sink, and continue sinking faster (at this point I realized I had inadvertently rounded out much too high) until touching down hard, in the grass to the right of the runway, in a nose-up attitude. I immediately maneuvered the aircraft back onto the runway, slowed down, and exited at the next taxiway. I asked my passengers if they had any injuries; fortunately, they had none and were OK. We taxied to transient parking and I shut down and secured the airplane.

I contacted San Carlos Flight Center, and let them know we were OK and had experienced a partial electrical failure, followed by a hard landing. The airport manager at Petaluma assisted with finding a mechanic at the airport who could take a look at the airplane, so I started up and taxied the airplane to the mechanic's hangar. I noticed that the electrical system was fully back online during the taxi. The mechanic wasn't able to find any issues with the electrical system from a quick inspection, but confirmed that the aircraft landing gear / strut looked bent, so I deemed the airplane unairworthy, left the aircraft parked there, and arranged for a ride back home for myself and my passengers.

The full extent of the damage was determined a couple days later by San Carlos Flight Center's mechanics.

RECOMMENDATION (How could this accident/incident have been prevented?) Operator/Owner Safety Recommendation Possible contributing factors: Switching from contact lenses to glasses, which produced a different sight picture and limited my corrected peripheral vision during the landing roundout and flare, especially in a no-flap landing situation where forward visibility over the nose was reduced. This may have contributed to misjudging height above the ground and not detecting drift from the runway centerline. - The partial electrical failure leading to a loss of radios caused additional stress about potential conflicting traffic, as I haven't operated at an airport before with no radios. This also led me to be more reluctant about going around. Worrying about the safety of the 3 passengers onboard also added additional stress when we experienced the partial electrical failure, as I had carried at most only one passenger prior to this flight. What the pilot could have done to prevent this accident: Before switching between vision correction methods (i.e. contact lenses and glasses), fly with an instructor first to ensure I can operate safely - If there's any doubt at all as to whether a safe approach and landing can be made (e.g. overshooting final), go around if there's nothing mechanically wrong with the airplane. - If the airplane starts sinking excessively during the flare, add power to slow the rate of descent and potentially go around. During the roundout / flare, quickly glance at an object off to the side (look at something other than the end of the runway) to aid in judging height above the runway. MECHANICAL MALFUNCTION/FAILURE (If more space is needed, continue on separate sheet) Total Time/Cycles Was there Mechanical Malfunction/Failure? Yes No On Part (If yes, list the name of the part, manufacturer, part no., serial no., and describe the failure.) Hours Cycles Time Since This Part Inspected/Overhauled Hours FUEL & SERVICES INFORMATION Fuel on Board at Last Takeoff Fuel Type (Convert from pounds, as necessary) 0 80/87 0 115/145 O Jet B Other, specify 100 Low Lead O Jet A O JP8 49 Gallons O 100/130 O Jet A-1 Automotive Other Services, if Any, Prior to Departure Before departure, I requested VFR flight following from San Carlos Ground to 0Q5 (Shelter Cove). 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 All occupants exited the aircraft normally through the pilot and passenger side doors. OTHER AIRCRAFT - COLLISION (If air or ground collision occurred, complete this section for other aircraft) Damage to Other Aircraft Aircraft Registration Number | Manufacturer: Destroyed ■ Minor Model: ■ Substantial None Registered Owner of Other Aircraft Pilot of Other Aircraft Name: Name: City: City: __ ZIP: ZIP: State: State: Country: Country:

Use this space if addition	al space is needed for any answer	rs.		
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In an email dated October 6, 2021, Mr. Shiau stated:

Hi Elliott,

As of the accident date, most of the rest of my flight experience was in the C152 (108.7 hours), with another 1.4 hours in the Piper Archer II (P28A). The majority of the no-flap landings I had previously performed were in the C152 as well - from my recollection I'd estimate I've performed maybe 20 in the C152 over the course of my private pilot training, and around 5 in the C172.

Best, Raymond