



# National Transportation Safety Board Aviation Accident Final Report

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<b>Location:</b>	DETROIT, MI	<b>Accident Number:</b>	CHI86FA026
<b>Date &amp; Time:</b>	11/12/1985, 0208 EST	<b>Registration:</b>	N6788Y
<b>Aircraft:</b>	CESSNA 402C	<b>Aircraft Damage:</b>	Destroyed
<b>Defining Event:</b>		<b>Injuries:</b>	1 Fatal
<b>Flight Conducted Under:</b>	Part 135: Air Taxi & Commuter - Non-scheduled		

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## Analysis

A 100-FT CEILING WITH 3000 FT RVR EXISTED AT DETROIT. THE PLT ATTEMPTED AN ILS APCH WITH A 200 FT DH WHEN HE STRUCK TREES ONE MILE FROM THE RWY. HE FLEW THE ACFT TO THE AIRFIELD BUT CRASHED NEAR THE THRESHOLD. THE ONLY APCH PLATES FOUND ONBOARD WERE FOR DETROIT AND MIDWAY IN CHICAGO. MIDWAY WAS HIS FINAL DESTINATION AFTER DETROIT. HE DID NOT HAVE ENOUGH FUEL TO GET TO MIDWAY. THE REST OF HIS APCH PLATES WERE LATER FOUND IN HIS PERSONAL VEHICLE BACK IN PENNSYLVANIA.

## 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 OBJECT

Phase of Operation: APPROACH - FAF/OUTER MARKER TO THRESHOLD (IFR)

### Findings

1. (F) OBJECT - TREE(S)
2. (C) IFR PROCEDURE - IMPROPER USE OF - PILOT IN COMMAND
3. (F) INFORMATION UNAVAILABLE - PILOT IN COMMAND
4. (F) WEATHER CONDITION - LOW CEILING
5. (C) PREFLIGHT PLANNING/PREPARATION - INATTENTIVE - PILOT IN COMMAND
6. (F) SELF-INDUCED PRESSURE - PILOT IN COMMAND
7. (C) NOT PERFORMED - PILOT IN COMMAND
8. (C) VISUAL LOOKOUT - REDUCED - PILOT IN COMMAND
9. (C) MINIMUM DESCENT ALTITUDE - NOT FOLLOWED - PILOT IN COMMAND

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Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - UNCONTROLLED

### Findings

10. (F) FLT CONTROL SYST,AILERON CONTROL - LOSS,PARTIAL
11. (F) DIRECTIONAL CONTROL - NOT POSSIBLE - PILOT IN COMMAND
12. (F) FLIGHT CONTROL,AILERON SURFACE - LOSS,PARTIAL
13. (F) WING,WINGTIP - LOSS,TOTAL

## Factual Information

### Pilot Information

<b>Certificate:</b>	Airline Transport; Flight Instructor	<b>Age:</b>	29, Male
<b>Airplane Rating(s):</b>	Multi-engine Land; Single-engine Land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	Seatbelt
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	Airplane Single-engine	<b>Toxicology Performed:</b>	Yes
<b>Medical Certification:</b>	Class 2 Valid Medical--w/ waivers/lim.	<b>Last FAA Medical Exam:</b>	11/01/1984
<b>Occupational Pilot:</b>	<b>Last Flight Review or Equivalent:</b>		
<b>Flight Time:</b>	4900 hours (Total, all aircraft), 350 hours (Total, this make and model), 4800 hours (Pilot In Command, all aircraft), 4 hours (Last 24 hours, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	CESSNA	<b>Registration:</b>	N6788Y
<b>Model/Series:</b>	402C 402C	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	No
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	402C0433
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	10/30/1985, AAIP	<b>Certified Max Gross Wt.:</b>	6850 lbs
<b>Time Since Last Inspection:</b>	26 Hours	<b>Engines:</b>	2 Reciprocating
<b>Airframe Total Time:</b>	2607 Hours	<b>Engine Manufacturer:</b>	CONTINENTAL
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	TSIO-520VB
<b>Registered Owner:</b>	GATEWAY TOYOTA, INC.	<b>Rated Power:</b>	325 hp
<b>Operator:</b>	GATEWAY PACE AVIATION, INC.	<b>Operating Certificate(s) Held:</b>	On-demand Air Taxi (135)

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Instrument Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	DTW, 639 ft msl	Distance from Accident Site:	2 Nautical Miles
Observation Time:	0150 EST	Direction from Accident Site:	180°
Lowest Cloud Condition:	Unknown / 0 ft agl	Visibility	0 Miles
Lowest Ceiling:	Obscured / 100 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	50°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	3° C / 1° C
Precipitation and Obscuration:			
Departure Point:	TETERBORO, NJ (TEB)	Type of Flight Plan Filed:	IFR
Destination:	DETROIT, MI (DTW)	Type of Clearance:	IFR
Departure Time:	1102 EST	Type of Airspace:	Class B; Class D

## Airport Information

Airport:	WAYNE COUNTY (DTW)	Runway Surface Type:	Concrete
Airport Elevation:	639 ft	Runway Surface Condition:	Wet
Runway Used:	0	IFR Approach:	ILS
Runway Length/Width:		VFR Approach/Landing:	None

## Wreckage and Impact Information

Crew Injuries:	1 Fatal	Aircraft Damage:	Destroyed
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Fatal	Latitude, Longitude:	

## Administrative Information

Investigator In Charge (IIC):	ROBERT P BENZON	Report Date:	
Additional Participating Persons:	C. ISSELHART; BELLEVILLE, MI J. MORAN; DALLAS, TX G. SHOEMAKER; WICHITA, KS R. SEBASTIAN; DES PLAINES, IL		
Publish Date:			
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at <a href="mailto:pubinquiry@ntsb.gov">pubinquiry@ntsb.gov</a> , or at 800-877-6799. Dockets released after this date are available at <a href="http://dms.nts.gov/pubdms/">http://dms.nts.gov/pubdms/</a> .		

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