

**Licenced Private Investigative Services - Commenced July 1997****Investigation services provided:**

Motor Vehicle Crash Analysis / Reconstruction  
 Serious Crime Investigation / Analysis

**Academic Specialist training:***Crash data Specialists -Crash Data Retrieval [CDR] certification in:*

CDR Users Conference	ASPACI Penrith NSW 2019
CDR Users Conference	ASPACI Penrith NSW 2015
Advanced Collision Reconstruction with CDR applications	ASPACI Penrith NSW 2013
CDR Operators update	ASPACI Penrith NSW 2013
CDR Operators	ASPACI Penrith NSW 2011
CDR Analysis & Applications	ASPACI Penrith NSW 2011

*Institute of Police Technology and Management [IPTM], University of North Florida USA certification in:*

Energy Methods & Damage Analysis in Traffic Crash Reconstruction	Murfreesboro 2011
Traffic Crash Reconstruction	Sydney 2000
Pedestrian & Bicycle Accident	Florida 2000
Motorcycle Crash Investigation	Florida 2000
Commercial Vehicle Crash	Florida 2000

*Assorted Training Service providers:*

Video Analysis in Collision Reconstruction	FCIR 2023
Biomechanics in AR	ASPACI 2022
PRT Crash Safety Research Center IDRR program User forum	CSSC 2022
Motorcycle Collision Reconstruction Light Point Learning (L Peck)	ASPACI 2022
Tyre Forensics 2021– TJ Tennant & Associates	WEBINAR 2021
PRT Crash Safety Research Center IDRR program course	ITAI 2021
PRT Crash Safety Research Center Human Factors for Traffic Crash Reconstruction	ITAI 2020
Tyre investigation Course – TJ Tennant & Associates Penrith NSW	ASPACI 2019
Conservation of Linear Momentum Update Accident Analysis & Reconstruction Inc	ASPACI 2017
PRT Crash Safety Research Center Human Factors for Traffic Crash Reconstruction	ASPACI 2016
TERNZ Static Roll Over Threshold Course Transport Engineering Research NZ ltd	2009
Vericom Certification	Lower Hutt Police Station 2003
Reconstruction Technology Course (Rectec)	Honolulu Police Department Hawaii 1999
Motor Vehicle Crash Analysis	Royal New Zealand Police College Massey 1998
Motor Vehicle Crash Reporting & Investigating	Royal New Zealand Police College Massey 1998
I2 Analysis Advanced Training	Wellington 1998
Intelligence Analysis	Royal New Zealand Police College 1991

**Practical Experience / License's:**

National circuit Racing C2	Motorsport New Zealand – Race	2021- current
National Rallying R1 Grade	Motorsport New Zealand – Rally	2012- current
International C Grade	Motorsport New Zealand – Race	2008 - 2021
Driving Instructor	Motorsport New Zealand – Race	2008 - 2021
National race licence	Motorsport New Zealand – Race	2006- 2008
V8 Race Experience (instructor)		2006- 2016
Advanced Driver Training (Instructor)	Holden Advanced Driver Training	2003- 2006
NZ Transport Agency M/V licences - Car , motorcycle, Heavy vehicle cat 4		1977-Current
Private Pilots Licence		Expired

**I have previously:**

- 1 Undergone Police recruit driver training.
- 2 Attended motor vehicle crashes whilst a member of the general duties branch of the NZ Police.
- 3 Rammed a fleeing offender's vehicle in a Police pursuit bringing the offender's vehicle to a stop.
- 4 Witnessed real world road crashes inclusive of: CMV near roll over -Trailer lift off, CMV Tractor unit loss of control & impact into embankment, car roll over after striking traffic island, bullet vehicle into parked car, high speed bullet vehicle into stationary vehicle at roundabout, failure to yield collisions, single vehicle loss of control, trailer wag causing collisions x2, Car striking a pedestrian [on Pedestrian crossing -wrap projection], sliding motorcycle v running pedestrian, fatigued driver asleep at wheel -drove off road.
- 5 Attended and witnessed staged crash test days inclusive of numerous car v car/s, truck v truck, car v truck/s (rear-end impact & under-ride, motorcycle v car, car v barrier impacts, (re validation of formula/EDR to determine impact speeds at ASPACI 2004, CDR 2015, WREX 2016)
- 6 Witnessed and/or had involvement in single vehicle and multiple vehicle crashes as a result of my motorsport involvement.
- 7 Been involved and continue to be involved in accident reconstruction testing involving, car, motorcycle, pedestrian and commercial motor vehicles.
- 8 Performed countless tests in wet and dry conditions involving:
  - 8.1 acceleration and emergency deceleration with & without ABS
  - 8.2 steering inputs for change of direction
  - 8.3 steering &/or other inputs to induce – yaw and override of ESP equipped vehicles
- 9 Conducted nighttime visibility studies in respect to motor vehicle headlights, covering Sight distances, pedestrian contrast/visibility, driver glare and opportunity to sight occupants of an oncoming vehicle.
- 10 Encountered wandering stock (yearling cattle) on the driver's side of my vehicle at night – headlights on low beam – unlit section SHW3 - at 100KPh - (cattle head movement avoided contact with driver's side of windscreen - No PRT available)
- 11 Conducted pedestrian walking speed surveys.
- 12 Conducted Driver "A" Pillar Blindspot testing involving 2014 Mitsubishi Outlander - right hand turn from carpark exit onto SHW
- 13 Conducted Driver - Pedestrian Blindspot approach corridor testing involving a 2016 Hino 500 Low Entry Vehicle (LEV) .
- 14 Conducted 2016 Hino 500 Low Entry Vehicle (LEV) - incab driver head transition studies in performing routine driver tasks- mirror camera checks.
- 15 Conducted countless Driver Training Perception Reaction exercises, conducted brake reaction testing, undertaken pedestrian incursion studies, conducted driver eye fixation testing.
- 16 Participated in Muttart human factors nighttime visibility testing and closing distance testing WREX 2016 (CSS149)
- 17 Taught correct cornering, steering and vehicle handling techniques
- 18 Invited and observed Royal New Zealand police college friction testing conducted at Manfeild Park 11 October 2022

**Professional Accreditation: ACTAR 3361**

Full Accreditation as a Traffic Accident Reconstructionist  
 ACTAR- The Accreditation Commission for Traffic Accident Reconstruction.

**Professional Memberships**

ASPACI - Australasian and South Pacific Association of Collision Investigators  
 IFPI - Independent Forensic Practitioners Institute [Inc]  
 ITAI – Institute of Traffic Accident Investigators

**Forum Membership:**

RESPONSE –User group (Driver Research Institute)  
 INCR – International Network Collision Reconstructionist's  
 CDR - Crash Data Retrieval User group

**Subscriptions to dedicated accident reconstruction publications:**

Momentum – Australasian & South Pacific Association of Collision Investigators Inc.  
 Impact – The Journal of the Institute of Traffic Accident Investigators  
 Collision – Collision Publishing

**Forensic workshops attended:**

World Reconstruction Expo breakout sessions	WREX	2016
Inclusive of:		
Biomechanic & Injury assessment		
Commercial vehicles airbrakes		
Digital forensics & Heavy Vehicles		
Human factors / Visual Amodal Perception		
Motorcycle speed from deformation		
Pedestrian Collisions		
Rollover crashes		
Tyre failure analysis passenger/ car light commercial/Commercial		
Video analysis of traffic collisions		
Grave Site examination	ANZFSS	2004
Shoeprint SICARS	ANZFSS	2004
Crime Scene Reconstruction Dr Henry Lee	ANZFSS	2004
Accident reconstruction Bi-ennial conference	ASPACI	2004

ANZFSS - Australian & New Zealand Forensic Science Society  
 ASPACI - Australasian and South Pacific Association of Collision Investigators  
 WREX – World Reconstruction Expo

**History of Police Service:**

Service commenced 1 April 1986                      ended: 5 July 1996

**Police Rank designation:**

Acting Detective Sergeant	Wanganui	1993, 1994, 1995
Acting Sectional Sergeant	Wanganui	1994
Detective CIB:	Wanganui	1993 - 1996
Detective Constable CIB:	Wanganui	1991 - 1993
Constable CIB:	Wanganui	1988 – 1991
Sectional Constable GDB	Wanganui	1986- 1988

**Courses - Training –Police Qualifications:**

Criminal Investigation & Theft Assessment	November	1994
Sergeants Qualifying Course 94/93	RNZPC	1994
Detective Qualifying Course (Placed 1 <sup>st</sup> )	RNZPC	1993

Paul Allen Bass Generic CV  
Helicopter Supplementary Crew Member

RNZPC  
Appendix A  
1992

Advanced Drug Investigation Course	RNZPC	1992
Intelligence Analysis Course	RNZPC	1990
Regional Child Abuse Conference	P/North	1991
National Child Abuse Conference	Wellington	1990
CIB Selection & Induction Course (Placed 1 <sup>st</sup> )	RNZPC	1990
Basic Investigation Course [m/v accident investigation content]	RNZPC	1988
Diploma in Policing	RNZPC	1988
Basic Recruit Course (Placed 2 <sup>nd</sup> )	RNZPC	1986

**Specialist Squads:**

Armed Offenders Squad	Wanganui	1989 – 1994
Aerial Cannabis recovery team	Wanganui District 91/92, 92/93, 93/94, 95	
Designated Drugs Detective	Wanganui CIB	1993 -1995
Intelligence Analyst	Wanganui CIB	
Sexual Abuse	Wanganui CIB	

**Police Awards / Commendations:**

Certificate of Appreciation – Operation Aramoana November 1990  
Commissioners Commendation Intelligence Analysis & Trial preparation work Norton Homicide  
Meltzer Trophy for weapons training (firearms)

End.