

Licensed 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 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 :

Crash Safety Research Center Human Factors for Traffic Crash Reconstruction	2016
TERNZ Static Roll Over Threshold Course Transport Engineering Research NZ ltd	2009
Vericom Accelerometer 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 Rallying R1 Grade	Motorsport New Zealand – Rally	2012- current
Driving Instructor	Motorsport New Zealand – Race	2008 -current
International C Grade	Motorsport New Zealand – Race	2008 -current
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		current
Expired- Private Pilots Licence		

I have previously:

- 1 Attended motor vehicle crashes whilst a member of the general duties branch of the NZ Police.
- 2 Rammed a fleeing offender's vehicle in a Police pursuit bringing the offender's vehicle to a stop.
- 3 Witnessed a number of real world road crashes inclusive of: CMV near roll over, CMV Tractor unit loss of control & impact, 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 v pedestrian [on Pedestrian crossing], sliding motorcycle v running pedestrian.
- 4 Attended crash test days and witnessed 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)
 - 5 Witnessed countless single vehicle and multiple vehicle crashes as a result of my motorsport involvement – the dynamics and laws of physics are the same
 - 6 Been involved and continue to be involved in accident reconstruction testing involving, car, motorcycle, pedestrian and commercial motor vehicles.
 - 7 Performed countless tests in wet and dry conditions involving:
 - 7.1 acceleration and emergency deceleration with & without ABS
 - 7.2 steering inputs for change of direction
 - 7.3 steering &/or other inputs to induce – yaw and override of ESP equipped vehicles
 - 8 Conducted a number of 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.
 - 9 Conducted "A" Pillar Blindspot testing involving 2014 Mitsubishi Outlander - right hand turn from carpark exit onto SHW.
 - 10 Conducted countless Driver Training Perception Reaction exercises, conducted brake reaction testing, undertaken pedestrian incursion studies, conducted driver eye fixation testing.
 - 11 Participated in Muttart human factors nighttime visibility testing and closing distance testing WREX 2016 (CSS149)
 - 12 Taught correct cornering, steering and vehicle handling techniques

Professional Memberships

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

Forum Membership:

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

Rank:

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 1st)	RNZPC	1993
Helicopter Supplementary Crew Member	RNZPC	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 1st)	RNZPC	1990
Basic Investigation Course [m/v accident investigation content]	RNZPC	1988
Basic Recruit Course (Placed 2nd)	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)