

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

Forensic Video analysis
 Motor Vehicle Crash Analysis / Reconstruction
 Serious Crime Investigation / Analysis

Specialist training: Forensic Digital Video Analysis

Amped Five video presentation course	Amped Software 2024
Amped Five file analysis and DVR conversion	Amped Software 2024
Amped User day forum	Amped Software 2024
Amped Five certification	Amped Software 2023
Measurement & Speed Estimation AMPED Five Module	Amped Software 2023
Forensic image & video enhancement with AMPED Five	Amped Software 2023
Video Analysis in Collision Reconstruction	FCIR 2023

Specialist training: Motor Vehicle Accident Reconstruction**Airbag control module:**

Crash data Specialists -Crash Data Retrieval [CDR] certification in:

Advanced Collision Reconstruction with CDR Applications	ASPACI Penrith NSW 2025
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

Human Factors

PRT Crash Safety Research Center IDRR program User forum	CSSC 2022
PRT Crash Safety Research Center IDRR program course	ITAI 2021
PRT Crash Safety Research Center Human Factors for Traffic Crash Reconstruction	ITAI 2020
PRT Crash Safety Research Center Human Factors for Traffic Crash Reconstruction	ASPACI 2016

Biomechanics

Biomechanics in AR (Accident Reconstruction)	ASPACI 2022
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Tyres:

Tyre Forensics 2021– TJ Tennant & Associates	WEBINAR 2021
Tyre investigation Course – TJ Tennant & Associates Penrith NSW	ASPACI 2019

Institute of Police Technology and Management [IPTM], University of North**Florida USA courses & 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 Accident reconstruction Training providers:

Motorcycle Collision Reconstruction Light Point Learning (L Peck)	ASPACI 2022
Conservation of Linear Momentum Update Accident Analysis & Reconstruction Inc	ASPACI 2017
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

Analytical training:

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 class 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

International 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:

Amped software – Discord forum
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 (Constable) - 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 st)	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 1 st)	RNZPC	1990
Basic Investigation Course [m/v accident & Fire investigation content]	RNZPC	1988
Diploma in Policing	RNZPC	1988
Basic Recruit Course (Placed 2 nd)	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.