



Vladimir Bortchevsky, ACTAR 2315

RELATED WORK EXPERIENCE

- 2010 - present Founded Collision Reconstruction And Scientific Hypothesis, LLC
t/a CRASH, LLC
A professional services collision reconstruction company was established to provide a collision related analysis, consultation and conclusion based on the facts of the case and the evidence examination. The company set forth objectives to become a leader in the field of collision reconstruction by maintaining the highest levels of integrity and professionalism.
- 2005 - present Calvert County Sheriff's Office
Coordinator and supervisor of Crash Reconstruction Team - current
Criminal Investigations Bureau – Detective Sergeant - current
Patrol Bureau Squad 2 – Patrol Supervisor (Sergeant)
Patrol Bureau Squad 4 – Patrol Supervisor (Corporal)
Patrol Bureau Street Crimes Squad – Supervisor (Corporal)
Traffic Safety Division – Supervisor (Corporal)
Patrol Bureau Squad 4 – Patrol Supervisor (Corporal)
Calvert Investigative Team – Detective
Patrol Bureau Squad 4 – Patrol Deputy
Member of the Commercial Vehicle Enforcement Division
Member of the Bike Patrol
Member of the Motor Unit
Member of the Conflict Management Team (Negotiator)
- 2003 – 2005 Metropolitan Police Department, Washington, District of Columbia
Seventh Police District – Patrol Officer
Seventh Police District – MPD-ATF-DOJ Taskforce "*Project Safe Neighborhood*"
Member of the Civil Disturbance Unit – Chemical Munitions Squad
- 2002 – 2003 United States Capitol Police
House Division – First Shift
Capitol Division First Responders Unit – Third Shift
Patrol and Mobile Response Division – First Shift
Member of the Civil Disturbance Unit

Collision Reconstruction And Scientific Hypothesis, LLC

Phone: 301-751-0732

E-mail: vbortch@gmail.com



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BASIC COLLISION INVESTIGATION TRAINING

- 2003 Basic Accident Investigation – 16 hours
Maurice T. Turner Institute of Police Science
Metropolitan Police Department, Washington, D.C.
- Traffic Management and Enforcement – 24 hours
Maurice T. Turner Institute of Police Science
Metropolitan Police Department, Washington, D.C.
- 2002 Basic Accident Investigation and Traffic Enforcement – 32 hours
Federal Law Enforcement Training Center – Glynco, GA

COLLISION INVESTIGATION AND RECONSTRUCTION TRAINING

- May 21, 2012 Photography for Collision Investigator – 40 Hours
Baltimore County Police Department
Instructor – Patrick Zito
- December 6, 2011 CAD Zone – CrashZone 9.2 – 16 Hours
Diagramming Software Course
Instructor – C.G. Russell
- September 26, 2011 Crash Data Retrieval Analyst Course – 40 Hours
Collision Safety Institute
Instructor – R. Height
- September 8, 2011 Crash Data Retrieval Update Course – 24 Hours
CDR Trainers
Instructor – B. Muir
- June 6, 2011 Pedestrian Reconstruction Investigation – 40 Hours
Accident Analysis and Reconstruction
Instructor – C.G. Russell
Ontario Police College – Canada
- March 28, 2011 Collision Reconstruction with CDR Application – 40 Hours
Accident Analysis and Reconstruction
CDR Trainers
Instructor – C.G. Russell
Instructor – B. Muir

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- December 3, 2010 Crash Data Retrieval Technician Course – 8 Hours
Accident Analysis and Reconstruction
Instructor – C. G. Russell
- August 20, 2010 Crush Energy Analysis in Collision Reconstruction – 40 Hours
Accident Analysis and Reconstruction
Instructor – C. G. Russell
- March 19, 2010 Human Factors for Traffic Accident Reconstruction – 40 Hours
Accident Dynamics Research Center
Instructor – Jeffrey Muttart ,M.A.
- February 8, 2010 Excel for Collision Reconstruction – 40 Hours
Accident Analysis & Reconstruction, Inc.
Instructor – C. Greg Russell
- November 16, 2009 Advanced Collision Reconstruction with Excel Applications – 40 hours
Accident Analysis & Reconstruction, Inc.
Instructor – C. Greg Russell
- September 14, 2009 Motorcycle Crash Investigation Course – 40 Hours
Eastern Shore Criminal Justice Academy, Maryland
Instructor – Gary Lewis
- July 13, 2009 Human Factors in Traffic Crash Reconstruction – 40 Hours
Institute of Police Technology and Management (IPTM)
Instructor – Patrick Robins, Ph. D.
- June 15, 2009 Collision Reconstruction Instructor Development – 40 Hours
Accident Analysis & Reconstruction, Inc.
Instructor – C. Greg Russell
Instructor – C. Lenny Simpson
- February 9, 2009 Crush Energy Analysis – 40 hours
Accident Analysis & Reconstruction, Inc.
Instructor – C. Greg Russell
Instructor – C. Lenny Simpson
- September 19, 2008 Crash Reconstruction “Level III” – 80 hours
Howard County Police Department



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- September 1, 2006 Advanced Crash Investigation “Level II” – 80 hours
Baltimore County Police Department
- May 19, 2006 At-Scene Crash Investigation “Level I” – 80 hours
Baltimore County Police Department

COLLISION INVESTIGATION CONFERENCES AND SEMINARS

- May 2, 2016 World Reconstruction Exposition 2016 (WREX 2016)
Reconstruction Conference – 40 hours
Orlando, Florida
- September 16, 2015 Illinois Association of Technical Accident Investigators
29th Annual Conference – 32 hours
Peoria, Illinois
- July 27, 2015 SCARS Annual Conference – 40 hours
South Carolina Accident Reconstruction Society (SCARS)
Charleston – Mt. Pleasant, South Carolina
- October 6, 2014 WATAI Fall Reconstruction Conference – 40 hours
Seattle, Washington
- September 23, 2014 Collision Reconstruction Seminar – 24 Hours
Pennsylvania State Police
State College, Pennsylvania
- August 19, 2014 CATAIR Annual Meeting and Conference – 24 hours
Ontario Police College
Aylmer, Ontario, Canada
- July 21, 2014 SCARS Annual Conference – 40 hours
South Carolina Accident Reconstruction Society (SCARS)
Charleston – Mt. Pleasant, South Carolina
- September 24, 2013 Collision Reconstruction Seminar – 24 Hours
Pennsylvania State Police
State College, Pennsylvania



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- July 22, 2013 SCARS Annual Conference – 40 hours
South Carolina Accident Reconstruction Society (SCARS)
Charleston – Mt. Pleasant, South Carolina
- March 27, 2013 Crash Reconstruction Training Conference – 24 Hours
Maryland Crash Reconstruction Committee
Linthicum, Maryland
- September 25, 2012 Collision Reconstruction Seminar – 24 Hours
Pennsylvania State Police
State College, Pennsylvania
- July 23, 2012 SCARS Annual Conference – 40 hours
South Carolina Accident Reconstruction Society (SCARS)
Charleston – Mt. Pleasant, South Carolina
- September 28, 2010 Collision Reconstruction Seminar – 24 hours
Pennsylvania State Police
State College, Pennsylvania
- March 10, 2010 Crash Reconstruction Training Conference – 24 Hours
Maryland Crash Reconstruction Committee
Linthicum, Maryland
- March 18, 2009 Crash Reconstruction Training Conference – 24 Hours
Maryland Crash Reconstruction Committee
Linthicum, Maryland



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COLLISION INVESTIGATION INSTRUCTOR AND SPEAKING EXPERIENCE

March 9 – 11, 2016 Basic Collision Investigation
(Entry Level Police Training)
Southern Maryland Criminal Justice Academy
Instructor

Conducted a three day training class. Instructed entry level police students in areas such as: Witness Reliability, Laws of Motion, Kinetic Energy, Basic Speed Formula, Photography, Vehicle Evidence Examination, and Roadway Evidence Examination. Conducted a dynamic skid test and a practical exercise to demonstrate the theory and reinforce the practices that were taught in class.

January 11 - 15, 2016 Excel for Collision Reconstruction
Ontario Provincial Police
Orillia, Ontario, Canada
Co-instructor

Taught a class of 27 police officers in the use of Microsoft Excel Software. Provided individual instructions to students, assisted with classroom preparation, assisted students during class projects.

November 16 - 20, 2015 Excel for Collision Reconstruction
Ontario Provincial Police
Orillia, Ontario, Canada
Co-instructor

Taught a class of 25 police officers in the use of Microsoft Excel Software. Provided individual instructions to students, assisted with classroom preparation, assisted students during class projects.



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August 31 –
September 4, 2015

Special Problems in Collision Reconstruction
Maryland Crash Reconstruction Committee
Anne Arundel County Police Department SOD – Millersville, MD
Co-Instructor

Taught a 40 hour reconstruction course to 30 police officers. The topics included Newtonian Physics, Momentum, Braking Efficiency, Slip Angle Analysis, Vehicle Dynamics, Time Distance Analysis, Critical Speed Analysis and other collision reconstruction related material.

August 19 - 21, 2015

Basic Collision Investigation
(Entry Level Police Training)
Southern Maryland Criminal Justice Academy
Instructor

Conducted a three day training class. Instructed entry level police students in areas such as: Witness Reliability, Laws of Motion, Kinetic Energy, Basic Speed Formula, Photography, Vehicle Evidence Examination, and Roadway Evidence Examination. Conducted a dynamic skid test and a practical exercise to demonstrate the theory and reinforce the practices that were taught in class.

February 9 – 13, 2015

Collision Reconstruction Update
Spokane County Sheriff's Office
Spokane, Washington
Instructor

Taught a 40 hour reconstruction course. The topics included Momentum, Braking Efficiency, Slip Angle Analysis, Vehicle Dynamics, Time Distance Analysis, Critical Speed Analysis and other collision reconstruction related material.

September 15 – 19, 2014

Special Problems in Collision Reconstruction
Maryland Crash Reconstruction Committee
Anne Arundel County Police Department SOD – Millersville, MD
Co-Instructor

Taught a 40 hour reconstruction course to 30 police officers. The topics included Newtonian Physics, Momentum, Braking Efficiency, Slip Angle Analysis, Vehicle Dynamics, Time Distance Analysis, Critical Speed Analysis and other collision reconstruction related material.

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September 8-11, 2014 Crash Data Retrieval Annalist Course
Mississippi Law Enforcement Training Center
Mississippi Bureau of Investigations (MBI)
Jackson, MS
Co-Instructor

Taught a 32 hour course to an audience of law enforcement officers. Topics included analysis of data of Bosch CDR supported vehicles, Delta V, PDOF, Working with the data obtained from download.

July 24, 2014 Coefficient of Friction Measurement Device Overview
Title: "Is the Drag Sled Dead?" – 2 hour presentation
Conference Presenter/Speaker
SCARS Annual Conference
South Carolina Accident Reconstruction Society (SCARS)
Charleston – Mt. Pleasant, South Carolina

Two hour presentation which highlighted the strengths and weaknesses of the devices for measuring coefficient of friction of the roadway utilized by collision investigation professionals today. Presentation was to an audience of 45 attendees, which included both, law enforcement officers and professional engineers.

June 2-6, 2014 Pedestrian Collision Investigation
Ottawa Police Department – Ontario, Canada
Co-instructor

Assisted with an advanced level course taught to 30 police officers. Topics included: Roadway Evidence, Vehicle Evidence, Pedestrian Equations, Photography, Off-tracking vehicles. Instructed blocks of lecture portion of the class, assisted with classroom preparation, provided individual instructions to students, assisted students during class projects. Set up and assisted with dynamic testing, pedestrian collisions.



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February 24 – 28, 2014 Excel for Collision Reconstruction
WATAI, Seattle, Washington
Co-instructor

Provided individual instructions to students, assisted with classroom preparation, assisted students during class projects.

October 1 -3, 2013 Basic Collision Investigation (Entry Level Police Training)
Southern Maryland Criminal Justice Academy
Lead Instructor

Conducted a three day training class. Instructed entry level police students in areas such as: Witness Reliability, Laws of Motion, Kinetic Energy, Basic Speed Formula, Photography, Vehicle Evidence Examination, and Roadway Evidence Examination. Conducted a dynamic skid test and a practical exercise to demonstrate the theory and reinforce the practices that were taught in class.

July 25, 2013 Critical Speed and Slip Angle Analysis – 2 hour presentation
Conference Presenter/Speaker
SCARS Annual Conference
South Carolina Accident Reconstruction Society (SCARS)
Charleston – Mt. Pleasant, South Carolina

Two hour presentation covering critical speed analysis and slip angle analysis to an audience of 45 law enforcement officers and professional engineers.

July 15 - 19, 2013 MCRC Crash Reconstruction School (Level II and Level III)
Hosted by Charles County Sheriff's Office, Waldorf, Maryland
Instructor

Instructed week one of two. Taught Math Review, Geometry Review, Trigonometry Review, Minimu Speed, Critical Speed, Airborne Analysis, Scene Mapping and Diagraming and other related topics.



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June 17 – 21, 2013 Crush Energy Analysis
Baltimore County Police Department – MCRC
Co-instructor

Taught blocks of instruction, assisted with classroom preparation, provided individual instructions to students, assisted students during class projects, assisted with field project.

March 18-22, 2013 Pedestrian Collision Investigation
WATAI, Bellevue –Seattle Area, Washington
Co-instructor

Assisted with an advanced level course taught to 30 police officers. Topics included: Roadway Evidence, Vehicle Evidence, Pedestrian Equations, Photography, Off-tracking vehicles. Instructed blocks of lecture portion of the class, assisted with classroom preparation, provided individual instructions to students, assisted students during class projects. Set up and assisted with dynamic testing, pedestrian collisions.

March 27, 2013 Critical Speed and Slip Angle Analysis – 2 hour presentation
Conference Presenter/Speaker
Crash Reconstruction Training Conference
Hosted by Maryland Crash reconstruction Committee
Linthicum, Maryland

Two hour presentation covering critical speed analysis and slip angle analysis to an audience of 150 law enforcement officers.

December 18 - 20, 2012 Basic Collision Investigation (Entry Level Police Training)
Southern Maryland Criminal Justice Academy
Lead Instructor

Conducted a three day training class. Instructed entry level police students in areas such as: Witness Reliability, Laws of Motion, Kinetic Energy, Basic Speed Formula, Photography, Vehicle Evidence Examination, and Roadway Evidence Examination. Conducted a dynamic skid test and a practical exercise to demonstrate the theory and reinforce the practices that were taught in class.



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Oct 29 – Nov 2, 2012 Pedestrian Collision Investigation
Peel Regional Police, Ontario Canada
Co-Instructor

Assisted with an advanced level course taught to 30 police officers. Topics included: Roadway Evidence, Vehicle Evidence, Pedestrian Equations, Photography, Off-tracking vehicles. Assisted with classroom preparation, provided individual instructions to students, assisted students during class projects.

September 10 – 21, 2012 Basic Collision Investigation School
United States Capitol Police Department
Co - Instructor

Taught an 80 hour collision investigation course to 25 police officers. The topics included Newtonian Physics, Braking Efficiency, Vehicle Dynamics, Time Distance Analysis, Critical Speed Analysis, Basic Speed Equation and other collision reconstruction related material. The course included dynamic testing.

June 18 – 22, 2012 Science of Collision Reconstruction
Baltimore County Police Department
Lead Instructor

Taught a 40 hour reconstruction course to 30 police officers. The topics included Newtonian Physics, Momentum, Braking Efficiency, Slip Angle Analysis, Vehicle Dynamics, Time Distance Analysis, Critical Speed Analysis and other collision reconstruction related material. The course included dynamic testing.

April 5, 2012 Three vehicle fatal motor vehicle collision – Case Study
Howard County Police Academy – MCRC
Presenter

Presented a case study of a fatal motor vehicle collision with criminal overtones to 50 attendees.



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March 27 – 29, 2012 Basic Collision Investigation (Entry Level Police Training)
Southern Maryland Criminal Justice Academy
Lead Instructor

Conducted a three day training class. Instructed entry level police students in areas such as: Witness Reliability, Laws of Motion, Kinetic Energy, Basic Speed Formula, Photography, Vehicle Evidence Examination, and Roadway Evidence Examination. Conducted a dynamic skid test and a practical exercise to demonstrate the theory and reinforce the practices that were taught in class.

March 12 -16, 2012 Crush Energy Analysis
North Las Vegas Police Department – North Las Vegas, NV
Co-instructor

Taught blocks of instruction, assisted with classroom preparation, provided individual instructions to students, assisted students during class projects.

March 5 – 9, 2012 Crush Energy Analysis
Utah Highway Patrol – Salt Lake City, UT
Co-instructor

Assisted with classroom preparation, provided individual instructions to students, assisted students during class projects.

February 23, 2012 Three vehicle fatal motor vehicle collision – Case Study
College of Southern Maryland – MCRC
Presenter

Presented a case study of a fatal motor vehicle collision with criminal overtones to 60 attendees.

January 16 – 27, 2012 Collision Reconstruction School
Linthicum Heights, Maryland
Co-instructor

Taught numerous blocks of instructions during an 80 hour reconstruction school to a class of police officers.



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November 7 – 11, 2011 Advanced Collision Reconstruction Update
West Chester, PA
Co-instructor

Assisted with classroom preparation, provided individual instructions to students, assisted students during class projects.

October 17 – 28, 2011 Advanced Collision Investigation
(Entry Level Reconstruction Training)
Virginia State Police, Richmond, VA
Co-instructor

Taught numerous blocks of instruction. Assisted with coordinating a class project. Evaluated student's performance. Proctored the final examination.

September 12-16, 2011 Special Problems in Collision Reconstruction
(Advanced Level Reconstruction Training)
Baltimore County Police Department, Dundalk, MD
Co-instructor

Taught various blocks of instructions. Provided assistance to students. Coordinated a class project involving research in the field of collision reconstruction.

May 23 – 27, 2011 Excel for Collision Reconstruction
(Advanced Level Reconstruction Training)
South Dakota Highway Patrol Academy, Pierre, SD
Co-instructor

Assisted with class preparation, gave individual instructions to members of the class. Provided assistance to students during a class projects. Proctored the final examination.



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September 21 – 23, 2010 Basic Collision Investigation
(Entry Level Police Training)
Southern Maryland Criminal Justice Academy
Instructor

Conducted a two and one half day training class. Instructed entry level police students in areas such as: Witness Reliability, Laws of Motion, Kinetic Energy, Basic Speed Formula, Photography, Vehicle Evidence Examination, and Roadway Evidence Examination. Conducted a dynamic skid test and a practical exercise to demonstrate the theory and reinforce the practices that were taught in class.

August 23-24, 2010 Advanced Collision Investigation (Level II)
Baltimore County Police Department
Co-instructor

Taught Kinetic Energy, Vehicle Dynamics, Conservation of Momentum and In-line Momentum to a class of 36 police officers from various departments within the State of Maryland.

May, 2010 Advanced Collision Reconstruction with Excel Applications
WATAI, Redmond, Washington
Co-instructor

Assisted with classroom preparation, provided individual instructions to students, assisted students during class projects.

January, 2010 In-service Training Calvert County Crash Reconstruction Team
Prince Frederick, Maryland
Instructor

Taught Momentum, Principal Direction of Force, Delta V to 14 members of the Reconstruction Team. Discussed a case study and described the approaches, methods and calculations used in the case.



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November, 2009 Advanced Collision Reconstruction with Excel Applications
Ontario Provincial Police Headquarters, Orillia, Canada
Co-instructor

Assisted with classroom preparation, provided individual instructions to students, assisted students during class projects.

September, 2009 MCRC Crash Reconstruction School (Level II and Level III)
Hosted by Maryland Transit Authority Police Department,
Baltimore, Maryland
Co-instructor

Taught Delta V, Principal Direction of Force, Human Factors in Collision Reconstruction.

April 27 – May 8, 2009 MCRC Crash Reconstruction School (Level II and Level III)
Hosted by Calvert County Sheriff's Office, Prince Frederick,
Maryland
Instructor

Coordinated the class schedule and scheduling of the instructors. Taught Math Review, Geometry Review, Trigonometry Review. Facilitated the final examination and live crash.



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COLLISION RESEARCH AND DYNAMIC TESTING

May 3, 2016

Orlando, Florida

World Reconstruction Exposition 2016 – WREX 2016

Crash Testing

Assisted with planning, preparation and documentation of three crash tests for a conference audience of over 900 people. Involved in the planning and developmental stages of the crash tests. Constructed a crash test pulley system. Fabricated robotic brake control components. Assisted with design and installation of the robotic operating system into the vehicles, documented the crash tests utilizing photo and video equipment.

April 18, 2016

Alymer , Ontario, Canada

Police Reconstruction Course

Ontario Police College

Crash Testing

Assisted with planning, preparation and documentation of one crash test. Involved in the planning and developmental stages of the crash test. Constructed a crash test pulley system. Fabricated robotic brake control components. Assisted with design and installation of the robotic operating system into the vehicles, documented the crash tests utilizing photo and video equipment.

October 14, 2015

Ocean City, Maryland

2015 Combined Reconstruction Conference

Crash Testing

Assisted with planning, preparation and documentation of several crash tests. Involved in the planning and developmental stages of the crash tests. Constructed a crash test pulley system. Fabricated robotic brake control components. Assisted with design and installation of the robotic operating system into the vehicles, documented the crash tests utilizing photo and video equipment.

September 21, 2015

Alymer , Ontario, Canada

Ontario Police College

Crash Testing

Assisted with planning, preparation and documentation of four crash tests. Involved in the planning and developmental stages of several crash tests. Constructed a crash test pulley system. Fabricated robotic steer control components. Assisted with design and installation of the robotic operating system into the vehicles, documented the crash tests utilizing photo and video equipment.

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September 16, 2015

Peoria, Illinois

Illinois Association of Technical Accident Investigators

29th Annual Conference

Crash Testing

Assisted with planning, preparation and documentation of several crash tests. Involved in the planning and developmental stages of the crash tests. Constructed a crash test pulley system. Fabricated robotic brake control components. Assisted with design and installation of the robotic operating system into the vehicles, documented the crash tests utilizing photo and video equipment.

July 27, 2015

Charleston, South Carolina

2015 Annual SCARS / Southeastern Reconstruction Conference

Crash Testing – Crash Data Specialists

Prepared crash test dummy that was utilized during testing. Conducted base line skid testing in order to determine the coefficient of friction of the roadway surface. Assisted with setup and documentation of eight pedestrian v. vehicle test crashes.

October 6, 2014

Seattle, Washington

WATAI Fall Reconstruction Conference

Crash Testing

Assisted with planning, preparation and documentation of several crash tests. Involved in the planning and developmental stages of the crash tests. Constructed a crash test pulley system. Fabricated robotic brake control components. Assisted with design and installation of the robotic operating system into the vehicles, documented the crash tests utilizing photo and video equipment.

September 23, 2014

State College, Pennsylvania

Pennsylvania State Police Reconstruction Seminar

Crash Testing

Assisted with planning, preparation and documentation of several crash tests. Involved in the planning and developmental stages of the crash tests. Constructed a crash test pulley system. Fabricated robotic brake control components. Assisted with design and installation of the robotic operating system into the vehicles, documented the crash tests utilizing photo and video equipment.

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August 19, 2014

Alymer , Ontario, Canada

2014 CATAIR Annual Meeting and Conference

Ontario Police College

Crash Testing

Assisted with planning, preparation and documentation of one crash test. Involved in the planning and developmental stages of the crash test. Constructed a crash test pulley system. Fabricated robotic brake control components. Assisted with design and installation of the robotic operating system into the vehicles, documented the crash tests utilizing photo and video equipment.

July 21, 2014

Charleston, South Carolina

2014 Annual SCARS / Southeastern Reconstruction Conference

Crash Testing – Crash Data Specialists

Assisted with planning, preparation and documentation of four crash tests. Conducted pre-crash (baseline) and post-crash ACM imaging of all supported vehicles, ride-along modules, assisted with installation of the cable tow-in operating system on the vehicles, documented the crash tests utilizing photo and video equipment.

June 4, 2014

Ottawa Police Service – Ottawa, Ontario, Canada

Pedestrian Collision Investigation Crash Testing

Prepared crash test dummy that was utilized during testing. Conducted base line skid testing in order to determine the coefficient of friction of the roadway surface. Assisted with setup and documentation of nine pedestrian v. vehicle test crashes.

July 22, 2013

Charleston, South Carolina

2013 Annual SCARS / Southeastern Reconstruction Conference

Crash Testing – Crash Data Specialists

Assisted with planning, preparation and documentation of five crash tests. Conducted pre-crash (baseline) and post-crash ACM imaging of all supported vehicles, ride-along modules, assisted with installation of the cable tow-in operating system on the vehicles, documented the crash tests utilizing photo and video equipment.

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April 15 – 19, 2013

Alymer , Ontario, Canada

Ontario Police College

Crash Testing

Assisted with planning, preparation and documentation of four crash tests. Involved in the planning and developmental stages of several crash tests. Constructed a crash test pulley system. Fabricated robotic steer control components. Assisted with design and installation of the robotic operating system into the vehicles, documented the crash tests utilizing photo and video equipment.

March 21, 2013

WATAI, Bellevue –Seattle Area, Washington

Pedestrian Collision Investigation

Prepared crash test dummy that was utilized during testing. Conducted base line skid testing in order to determine the coefficient of friction of the roadway surface. Assisted with setup and documentation of five pedestrian v. vehicle test crashes.

July 23, 2012

Charleston, South Carolina

2012 Annual SCARS / Southeastern Reconstruction Conference

Crash Testing – Crash Data Specialists

Assisted with planning, preparation and documentation of five crash tests. Conducted pre-crash (baseline) and post-crash ACM imaging of all supported vehicles, ride-along modules, assisted with installation of the cable tow-in operating system on the vehicles, documented the crash tests utilizing photo and video equipment.

June 21, 2012

Baltimore, Maryland

Dynamic Vehicle Testing

Coordinated, planned and documented dynamic testing as part of an advanced level crash reconstruction course. The testing included skid tests and critical speed analysis. The testing was done in order to demonstrate principles taught in class.

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April 16 – 20, 2012

Alymer , Ontario, Canada

Ontario Police College

Crash Testing

Assisted with planning, preparation and documentation of four crash tests. Involved in the planning and developmental stages of several crash tests. Constructed a crash test pulley system. Assisted with design and installation of the robotic operating system into the vehicles, documented the crash tests utilizing photo and video equipment.

July 25, 2011

Charleston, South Carolina

2011 Annual SCARS / Southeastern Reconstruction Conference

Crash Testing – Crash Data Specialists

Assisted with planning, preparation and documentation of three crash tests. Conducted pre-crash (baseline) and post-crash ACM imaging of all supported vehicles, assisted with installation of the robotic operating system into the vehicles, documented the crash tests utilizing photo and video equipment.

June 8, 2011

Alymer, Ontario, Canada

Ontario Police College

Pedestrian Reconstruction School

Operator in two pedestrian v. vehicle test crashes. Operated a passenger vehicle and struck the pedestrian at 35 mph while the vehicle was braking. Operated a passenger vehicle and struck the pedestrian at 50 mph vehicle was under constant speed. Dummy was utilized during testing. The dummy weight was 105 lb. Assisted with setup and documentation of 4 other pedestrian v. vehicle test crashes.

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August 10, 2010

Richmond, Virginia

Contracted by Collision Analysis and Reconstruction

Virginia State Police

Operator in two vehicle to vehicle collisions used to demonstrate collision sequence to the class of 30 police officers.

Collision number 1: operated a vehicle at 30 miles per hour and collided with the vehicle traveling 10 miles per hour. Collected collision data such as: time of the impulse, distance, lateral and longitudinal accelerations, video and still photographs of the collision.

Collision number 2: operated a vehicle at 37 miles per hour and collided with a stationary vehicle in a t-bone type of collision with front airbag deployment. Collected collision data such as: time of the impulse, distance, lateral and longitudinal accelerations, video and still photographs of the collision.

July 28, 2009

Dunkirk, Maryland

Conducted a vehicle acceleration study of more than 60 passenger vehicles at the intersection of MD Route 4 and Apple Way. The data was used to determine the average acceleration of a passenger vehicle. The data was further broken down into two types of acceleration: threat vehicle present and threat vehicle absent. The two sets of data were compared and differences in acceleration rate were documented for future use in the field of collision reconstruction.

July 15, 2009

Baltimore, Maryland

Was a subject in a night time driver perception response study conducted in conjunction with IPTM Human Factors Class. Data was cataloged and analyzed for use in the field of collision reconstruction.

July 14, 2009

Chesapeake Beach, Maryland

Conducted driver response study at the intersection of MD Route 261 and MD Route 260. During the study the response to a green light by the driver of the lead vehicle was measured and data compiled into database for further analysis and application in the field of collision reconstruction.

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PROFESSIONAL ORGANIZATIONS MEMBERSHIP

ACTAR	Accreditation Commission for Traffic Accident Reconstruction
INCR	International Network of Collision Reconstructionists
MdATAI	Maryland Association of Traffic Accident Investigators – Board of Directors
CDRTool	International Network of Bosch CDR System Users
HAPS	Harvard Associates in Police Science
MACCHIA	Mid-Atlantic Cold Case Homicide Investigators Association

PROVIDED EXPERT TESTIMONY IN THE FOLLOWING COURTS:

The Circuit Court for Anne Arundel County, Maryland

The Circuit Court for Saint Mary's County, Maryland

The District Court of Maryland for Baltimore County

The District Court of Maryland for Prince George's County



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PROFESSIONAL TRAINING AND EDUCATION

- 8/2016 17th Annual Cold Case Homicide Investigations Conference
32 hours
Mid-Atlantic Cold Case Homicide Investigators Association
Annapolis, Maryland
- 7/2016 Mass Casualty Homicide Investigations – 32 hours
Office of the Chief Medical Examiner
Harvard Associates in Police Science
Baltimore, Maryland
- 6/2016 Human Trafficking Investigation and Enforcement – 24 hours
Governor's Office of Crime Prevention
Towson University
Bel Air, Maryland
- 7/2015 In-Custody Death Investigation Seminar – 32 hours
Office of the Chief Medical Examiner
Harvard Associates in Police Science
Baltimore, Maryland
- 9/2014 Infotainment System and Mobile Communication Device
Forensic Analysis – 8 hours
Berla Corporation
Mitchelville, Maryland
- 3/2011 POLEX (Police Executive Development) – 80 hours
MPCTC Sykesville, Maryland
Pennsylvania State University
March 21-28, 2011; April 4-8, 2011
- 3/2011 Commercial Motor Vehicle Drug Interdiction School – 24 hours
US DOT , hosted by Charles County Sheriff's Office
- 9/2010 Vehicle Inspection Course – Level I – 40 hours
North American Standard
Commercial Vehicle Enforcement Division
Maryland State Police, Linthicum, Maryland



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- 9/2010 Driver Inspection Course – Level III – 40 hours
North American Standard
Commercial Vehicle Enforcement Division
Maryland State Police, Linthicum, Maryland
- 6/2010 Police Motorcycle Operator School – 80 hours
Metropolitan Police Department, Washington, D.C.
- 4/2010 Sobriety Checkpoint Manager School – 4 hours
Maryland State Police
- 11/2009 Emergency Vehicle Operation Course Instructor Training – 80 hours
Maryland Police Training Commission
- 7/2008 The Basic Hostage Negotiation School – 40 hours
Prince George’s County Sheriff’s Office
Instructor – Elizabeth Mints
- 5/2007 Frances Glessner-Lee Seminar in Homicide Investigation – 40 hours
Office of the Chief Medical Examiner, Baltimore, Maryland
- 4/2007 General Police Instructor Certification Course – 56 hours
Maryland Police Training Commission
- 4/2007 Introduction to Computer Crime Investigations – 8 hours
Maryland State Police
- 12/2006 Advanced Course on Reid Technique in Interviewing and Interrogation –
8 hours
John E. Reid and Associates
Instructor – David M. Buckley
- 11/2006 The Reid Technique in Interviewing and Interrogation – 32 hours
John E, Reid and Associates
Instructor – David M. Buckley
- 11/2005 Police LASER Motor Vehicle Speed Detecting Device – 8 Hours
Calvert County Sheriff’s Office, Maryland
- 11/2005 Police Radar Motor Vehicle Speed Measurement Device – 24 Hours
Calvert County Sheriff’s Office, Maryland



Vladimir Bortchevsky, ACTAR 2315

- 7/2005 Chemical Test Instrumentation – 40 Hours
Certification to operate Intoxilyzer 5000, Guth Model 34C Simulator and
SD-2 RBT
Maurice T. Turner Institute of Police Science
Metropolitan Police Department, Washington, D.C.
- 7/2005 DWI Detection and Standardized Field Sobriety Tests Training –
40 Hours
Maurice T. Turner Institute of Police Science
Metropolitan Police Department, Washington, D.C.
- 12/2004 Technology and Operation of the LIDAR PRO-LASER III – 8 hours
Maurice T. Turner Institute of Police Science
Metropolitan Police Department, Washington, D.C.
- 12/2003 – 4/2003 Lateral Transfer Police Officer Training – 16 Weeks
Maurice T. Turner Institute of Police Science
Metropolitan Police Department, Washington, D.C.
- 10/2003 Street Crimes and Surveillance Techniques – 24 Hours
John E. Reid and Associates
Instructor – Patrick McCarthy
Fairfax, Virginia
- 5/2003 Patrol Rifle Certification – 40 Hours
United States Capitol Police, Washington, D.C.
- 4/2003 Civil Disturbance Unit Training – 32 Hours
United States Capitol Police, Washington, D.C.
- 07/2002 – 11/2003 Basic Police Training – 24 Weeks
Federal Law Enforcement Training Center