

PROFILE

Mr. Vladimir Panlilio is a Senior Project Engineer with over 40 years of experience as a Mechanical Engineer. Mr. Panlilio specializes in the fields of failure analysis and product liability. Mr. Panlilio evaluates failures of commercial, industrial and residential mechanical equipment, including mechanical piping, HVAC systems, industrial storage tanks, industrial food equipment, boilers, combustion equipment, fire detection and suppression systems, plumbing fixtures, engines and vehicles. Mr. Panlilio conducts detailed forensic investigations to include examinations and testing to determine the origin of loss, extent of damage, and repair versus replace estimates. Key strengths include the following:

- ▶ Air Bag Systems
- ▶ ASTM Standards
- ▶ Cast Iron Soil Pipes
- ▶ Commercial Trailers
- ▶ Construction Drawings
- ▶ Event Data Recorders
- ▶ Fire Hydrants
- ▶ Fluid Machinery
- ▶ Industrial Equipment
- ▶ Mechanical Failure
- ▶ Refrigeration
- ▶ Solar Collectors and Dryers
- ▶ Vehicle Defects
- ▶ Alternative Fuels
- ▶ Boilers
- ▶ Combustion
- ▶ Compliance Testing
- ▶ Equipment Causation
- ▶ Expert Witness
- ▶ Flame Propagation
- ▶ HVAC Systems
- ▶ Lift Axles
- ▶ Product Liability
- ▶ Research and Testing
- ▶ Thermodynamics

EDUCATION

Master of Science, Mechanical Engineering – Combustion and Flame Propagation, 1981

University of Calgary – Calgary, Alberta

Master of Engineering, Mechanical Engineering – Thermal and Environmental Engineering, 1979

University of the Philippines – Quezon City, Philippines

Bachelor of Science, Mechanical Engineering, 1976

University of the Philippines – Quezon City, Philippines

LICENSES

Professional Engineer (P.Eng):

- ▶ Alberta

CERTIFICATIONS

Calgary Police Service – Certified CDR Operator, 2009

OFFICE

1258 – 73rd Avenue SE
Calgary, AB Canada T2H 2V5

CONTACT

Office: +1 403 243 2238

Cell: +1 403 850 6752

Fax: +1 403 243 2270

Vladimir.Panlilio@envistaforensics.com

CORPORATE OFFICE

2785 Skymark Avenue
Suite 14
Mississauga, ON L4W 4Y3

WEBSITE

www.envistaforensics.com

PROFESSIONAL BACKGROUND

April 2018 – Present: Envista Forensics, formerly SAMAC Engineering, Ltd. – Calgary, Alberta
Senior Project Engineer

October 2009 – March 2018: SAMAC Engineering, Ltd. – Calgary, Alberta
Lead Mechanical Engineer

September 2007 – September 2012: The Hanna Test Centre – Calgary and Hanna, Alberta
Principal and Facility Manager

January 1992 – July 2017: University of Calgary – Calgary, Alberta
Adjunct Associate Professor

January 1992 – March 2006: University of Calgary – Calgary, Alberta
Head, Injury Research Unit

September 1983 – December 1991: University of Calgary – Calgary, Alberta
Vehicle Analyst, Injury Research Unit

July 1981 – August 1982: University of Calgary – Calgary, Alberta
Research Associate

July 1976 – October 1979: University of the Philippines – Quezon City, Philippines
Instructor, Department of Mechanical Engineering

PROFESSIONAL AFFILIATIONS

- ▶ Association of Professional Engineers and Geoscientists of Alberta (APEGA)
- ▶ Society of Automotive Engineers (SAE)
- ▶ American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)

CONTINUING EDUCATION

- ▶ **Crash Data Retrieval Analyst Course**, (Collision Safety Institute), Calgary, 2010
- ▶ **PC-Crash Essentials Workshop**, Vancouver, 2010
- ▶ **Human Factors in Traffic Crashes**, Accident Dynamics Research Center, Edmonton, 2009
- ▶ **Airbags**, Transport Canada
- ▶ **Collision Reconstruction**, SLAM Workshops
- ▶ **Advanced Accident Analysis**, Institute of Police Technology and Management, University of North Florida, 1986

PRESENTATIONS

- ▶ Invited speaker on crush energy analysis at the 2012 Joint Annual Training Conference for all RCMP “K” Division and Calgary Police Service Collision Analysts.
- ▶ Organized and hosted CDR workshops (with Transport Canada) focusing on the available methods of downloading data from event data recorders, 1997–2005.
- ▶ Organized and hosted hands-on workshops with Transport Canada reviewing vehicle defect cases, 1983-2005.

PUBLICATIONS

- ▶ *School Bus Crash Performance: Case Studies*; Panlilio, V. and Gardner, W.; Proc. CMRSC-XII; London, Ontario; June 10-13, 2001.
- ▶ *Staged Train-Pickup Collision*; Panlilio, V. and Gaede, T.; Proc. CMRSC-XI; Halifax Nova Scotia; May 9-12, 1999.
- ▶ *Flame Propagation and Extinction within Mixtures Involving Hydrogen and Diluent Inert Gases in Air*; Karim, G. and Panlilio, V.; International Journal of Hydrogen Energy, 1993.
- ▶ *Flame Propagation and Lean-Limit Extinction Within Stratified Mixtures Involving a Diluent Gas*; Karim, G. and Panlilio, V.; Transactions – American Society of Mechanical Engineers, 1992.
- ▶ *An Evaluation of the Injury Severity Score in a Pediatric Population; The Light Truck and Van Study*; White, B., Read, J., and Panlilio, V.; Proc. CMRSC-V, Calgary, Alberta; June 1-3, 1987.