

## **RAYMOND J. MUELLER, A.S.E.**

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### **CURRICULUM VITAE**

#### **EDUCATION:**

Graduate of West Milford Township High School, West Milford, N.J., 1980

Graduate of Lincoln Technical Institute, Union, N.J, 1981.  
Diploma in Automotive - Diesel Technology

Graduate of Morris County Police and Fire Academy, Morris, N.J., 1996  
Police Training Certificate

Northwestern University Traffic Institute  
Crash Investigation I  
Crash Investigation II  
Vehicle Dynamics

#### **EXPERIENCE:**

Fifteen years professional experience in the automotive field specializing in the following areas:

Line Technician working on foreign and domestic automotive products in all of the following areas:

- Full service automotive, light truck, heavy truck, and heavy equipment maintenance, problem diagnosis and repair.
- Vehicle performance, micro processor diagnosis and repair utilizing chassis dynamometer, oscilloscope, scan tool, and exhaust emission analyzer simultaneously to diagnose performance problems and dyno tune engines to achieve maximum performance and fuel economy.
- Carburetor, hydraulic brake component, alternator and starter rebuilding.
- Commercial Lawn equipment maintenance, problem diagnosis and repair.
- Small engine equipment maintenance, problem diagnosis and repair.
- Bodywork repairs and refinishing.
- Hydraulic system maintenance, problem diagnosis and repair.
- Snow plow and sander maintenance and repair.
- Tow truck operator.
- Designing, fabricating, welding and assembling components as needed.

Police Officer since 1996, Sparta Township Police Department, Sparta, New Jersey.

Member of the Sussex County Prosecutors Office Crash Analysis and Reconstruction Team.

## **LICENSES AND CERTIFICATIONS:**

State of New Jersey Radar Operator

State of New Jersey Breathalyzer Operator since 1998 State of New Jersey Emergency Medical Technician

Automotive Service Excellence Certified Mechanic

NASDS Certified Advanced Scuba Diver

Alcotest Operator

Current Automotive Service Excellence Certificates in the following areas:

- Automotive Repair
- Engine Repair
- Manual Drive Train and Axle
- Suspension and Steering
- Brake Systems
- Electrical and Electronic Systems
- Heating and Air Conditioning
- Engine Performance

Current Automotive Service Excellence Certificates in the following areas of Medium and Heavy Duty Truck Repair:

- Gasoline Engines
- Diesel Engines,
- Brake Systems
- Drive Train
- Electrical and Electronic Systems

## **OTHER SPECIALIZED TRAINING:**

- Ford Motor Microprocessor and electronic Engine Control Systems Seminar (5/89)

- Caterpillar Engine Preventive Maintenance Seminar (9/90)

- Bendix Air Brake Systems and Maintenance Seminar (2/91)

- Central Hydraulic Systems and Maintenance Seminar (3/91)

- Sussex County Vocational – Technical School Adult Education Program:

Welding 72 Hours (12/92)

- Snap On Advanced Systems Diagnosis (8/94)

Compression

Electrical Systems

Ignition Systems

Air/Fuel Systems

On-Board Computer Systems

- Incident Command System (11/93)

- Confined Space Entry Training Seminar (3/95)
- Hazardous Materials Emergency response training (3/96)
- Environmental Offenses Course (3/96)
- Driver Improvement program (4/96)
- Cell Block management (5/96)
- Nighttime Motor Vehicle Stops (9/96)
- Motor Vehicle Stop and Search (10/96)
- Drug Interdiction (10/96)
- Increasing Human Effectiveness (10/96)
- Tactical Handgun (10/96)
- Arrest, Search, and Seizure, Report Writing and Court Room Testimony (10/96)
- Domestic Violence (3/97)
- Mental Health (4/97)
- Confessions and the Law (4/97)
- DWI Detection, Field Sobriety Testing (4/97)
- Drug Interdiction (6/97)
- Horizontal Gaze Nystagmus (6/97)
- Stop and Frisk (9/97)
- Interview and Interrogation (9/97)
- Breathalyzer Operator (2/98)
- Drug Interdiction (5/98)
- Narcotics Trafficking (9/98)
- Driver Simulator Training (12/98)
- Interview Techniques and Statement Analysis (5/99)
- Fatal Motor Vehicle Seminar (6/99)
- Motor Vehicle Law Search and Seizure (9/99)
- Defibulator Operator (2/00)
- Harassment in the Workplace (6/00)
- Commercial Vehicle/ Title 39 Enforcement (5/01)
- N.J. Department of Fish and Game, Certified Bear Response Officer Training (1/02)
- Officers Flying Armed (4/03)
- Field Training Officer (3/04)
- Chemical Agent Spray Instructor (6/04)
- Firearms Instructor (7/04)
- O.C. Pepper Spray Instructor (7/05)
- Rail Roads and Rail Road Crossings (8/05)
- New Jersey Division of Highway Traffic Safety Courses:
  - Police Basic Work Zone Safety (05/05)
  - Police Basic Work Zone Safety New Jersey Specific (05/05)
  - Police Work Zone Safety Managing the Content (05/05)

- Police Work Zone Safety Refresher (05/05)
- Remington Firearms Armorer School (12/05)
- Alcotest Operator (3/06)
- Institute of Police Technology and Management, University of North Florida  
Traffic Crash Reconstruction (10/04)
- Bendix Computerized Air Brake and Traction Control Systems for large trucks, busses and tractor trailers Seminar (11/04)

2006 F<sup>3</sup>T<sup>2</sup> Combined Conference (12 Hosting Organizations)

(CATAIR – MATAI – PSFM – SEARS – IAARS – NAPARS – SCAARS – SOARS - NYSTARS – SATAI – WATAI, etc.)

- Crash Tests, Dynamic Deceleration Testing, Tire-Road Friction Related to Drag Sleds, Applicability of Crush Analysis Formulas, Nighttime Perception/Reaction Test, Highway Sightlines for Accident Reconstruction – Houston, Texas- September 17-21, 2006.

2007 Combined Conference/Investigating Eccentric Collisions

(NYSTARS – NJAAR – NAPARS – NATARI – MATAI)

- Occupant Kinematics in a Rotational Collision, Injury Patterns, Crash Data Retrieval (CDR) Up-dates, Eccentric Crash Testing - Binghamton, New York – October 24-26, 2007