



## PROFESSIONAL RESUME

### HERBERT C. NEWBOLD, P.E.

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Louisville, CO 80027  
Voice 303-666-8811  
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#### PERSONAL:

Date of birth – February 26, 1960.  
Married.

#### EDUCATION:

B.S. – Mechanical Engineering, University of Colorado at Boulder, 1983

#### PROFESSIONAL ENGINEERING CONSULTATION

- **Accident Reconstruction**  
Motor vehicle: Automobile, Truck, Bus  
Recreational Vehicles: Motorcycle, ATV, Snowmobile, Bicycle, Watercraft  
Construction / Heavy equipment  
Pedestrian
- **Failure Analysis**  
Automotive, truck and bus mechanical failure  
Recreational vehicle mechanical failure  
Construction and industrial equipment failure
- **Design and Testing**  
Product development  
Safety analysis  
Test fixture design and fabrication
- **Reconstruction Capabilities**  
Accident scene survey  
Vehicle damage documentation  
Visibility  
Driver Response  
Vehicle performance characteristics  
Vehicle/occupant dynamics

#### PROFESSIONAL AFFILIATIONS

- Registered Professional Engineer, State of Colorado
- Certified - Traffic Accident Reconstruction – ACTAR #719 (1996-2000)
- Society of Automotive Engineers (SAE)
- American Society of Mechanical Engineers (ASME)

## **PROFESSIONAL EXPERIENCE**

2000-Present

Consulting Mechanical Engineer, Impact Consulting Engineers  
President: 2000-Present

Provide mechanical engineering consultation in accident reconstruction, failure analysis, product liability and mechanical design and testing with special emphasis on motorcycle accident reconstruction, design and testing

1983 –2000

Consulting Mechanical Engineer, Ponderosa Associates  
Vice-president: 1990-2000

Engineering consultation in accident reconstruction, failure analysis, and mechanical design and testing.

Prior Work Experience:

Industrial Equipment Designer/Fabricator  
Machinist  
Land Surveyor  
Automotive/Heavy Equipment Mechanic

## **NOTABLE PROJECTS**

- **GUEST LECTURER**  
University of Colorado College of Engineering  
University of Colorado College of Law  
University of Denver College of Law  
Colorado Trial Lawyers Association  
American Trial Lawyers Association  
National Institute for Trial Advocacy
- **AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)**  
Member, Standards Committee for Specialty Vehicle Institute of America (SVIA) for Four Wheel All-Terrain Vehicles (ATV's).
- **CONSUMER PRODUCTS SAFETY COMMISSION (CPSC)**  
Consultant to the engineering department for the design, performance and safety of all-terrain vehicles.
- **NATIONAL ASSOCIATION OF ATTORNEYS GENERAL (NAAG)**  
Technical advisor for NAAG ATV Task Force Group focusing on vehicle design, safety and development of appropriate performance standards.
- **NEOPLAN BUS COMPANY**  
Design and testing of transit bus structure and suspension systems, vehicle performance, crashworthiness and failure analysis.
- **LANGE SKI BOOT**  
Development of instrumentation to measure ski boot performance parameters. Testing for effect of boot configuration on body position.

## **HONORS**

- **LINCOLN ARC WELDING FOUNDATION**  
Recipient of Outstanding Achievement Award in Design Engineering