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Résumé of  
**Allen Molitoris**

**Education:** B.S. Mechanical Engineering  
University of Colorado, Boulder, 2003.

**Registration:** Mr. Molitoris is an Engineer-Intern, currently preparing to sit for the Colorado Professional Engineer License Examination

**Experience:** Principal Engineer, Jacobson Forensic Engineering, Inc.  
Littleton, Colorado  
2009 to Present;

Mechanical Engineer II, Zolo Technologies Inc.  
Boulder, Colorado  
2008 to 2009;

Mechanical Systems Design Engineer,  
Aviation Technology Group Inc.  
Englewood, Colorado  
2004 to 2007:

- Environmental Control System Designer, 2007
- Hydraulic System Lead, 2006 to 2007
- Production Aircraft CAD Designer, 2005 to 2007
- Prototype Aircraft CAD Designer, 2004 to 2005



**Forensic Engineering:** Mr. Molitoris conducts investigations of motor vehicle accidents involving passenger cars, trucks, tractor-trailers, buses, motorcycles, bicycles and pedestrians. He performs engineering analyses of vehicle mechanical components including brakes, suspensions, transmissions and restraint systems.

As a Forensic Engineer, his automotive investigations include the evaluation of vehicle dynamics, collision related damage, occupant motion and driver reactions. Mr. Molitoris performs time/space analyses and accident site surveys for vehicle collisions. His background in aircraft mechanical system design and failure mode mitigation allows him to provide analysis of a wide variety of mechanical failures including manufacturing equipment, consumer products, safety and guarding and industrial accidents.

**Engineering Background:** Mr. Molitoris' academic training is enhanced by his experience with the design of a variety of mechanical devices. Mr. Molitoris has served as a Mechanical Systems Design Engineer for new aircraft development. He has a strong understanding of the critical parameters for a variety of mechanical systems. At Aviation Technology Group, he served as the Lead Engineer for the aircraft hydraulic system integration and a Design Engineer for the aircraft environmental control systems. He has also been involved with the design of a flight demonstrator prototype aircraft ground steering system. He is experienced with the investigation of potential failure scenarios in order to ensure safe aircraft operation.

Mr. Molitoris contributed to the patent-pending design of an apparatus for monitoring industrial coal-fired furnace operations including designing mounts, enclosures, and interface upgrades for existing optical transmission assemblies. Mr. Molitoris has designed optical alignment tooling required to support robust, precision alignment of fiber optics and lenses. He has investigated the premature failure of an existing furnace port rodder system, resulting in a redesign of critical components, and performed life cycle testing of mechanical linkage and related components to extend service life.

**Professional Affiliations:** Mr. Molitoris is currently a member of the following technical and professional societies:

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| SAE – Society of Automotive Engineers    | NSPE – National Society of Professional Engineers |
| PEC – Professional Engineers of Colorado | ARC Network – Accident Reconstruction Network     |



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