



Pami Howell, ACTAR

Consultant

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Background

Ms. Pami Howell graduated with a Bachelor of Science in Mechanical Engineering from the Ohio State University. She has experience in product research and development, vehicle dynamics, HVAC design, construction administration, management of residential renovations, and property management.

Ms. Howell began her forensic experience in college with an extended internship in vehicle dynamics and biomechanics. Upon graduation, she expanded her expertise into HVAC design. She worked in New York City, primarily in existing high-rise buildings, finding creative solutions to cool high-occupancy spaces with large equipment loads. These projects included tenant fit-outs, chiller plants, cooling towers, and UPS systems. Ms. Howell has experience in product research and development, having designed and built the mechanical components of controlled environment measurement systems for pharmaceutical testing and development. Additionally, Ms. Howell has designed, created construction documents, and managed construction projects for residential renovations while serving as a property manager and independent contractor.

Ms. Howell provides analyses of HVAC, mechanical, and plumbing systems and failures. Ms. Howell is also an accredited traffic accident reconstructionist by the Accreditation Commission for Traffic Accident Reconstruction (ACTAR). She is a certified technician for the removal, download, and reading of airbag control modules for passenger vehicles as well as a certified small, unmanned aircraft systems remote pilot.

Forensic Engagements

• Accident Investigation

- Passenger vehicle inspections.
- Commercial vehicle inspections.
- Vehicle event data recorder downloads.
- Accident site inspections.
- Damage consistency analysis.
- Vehicle system failure analysis.
- Vehicle theft investigation.
- Vehicle accident reconstruction and analysis.

- **Mechanical, Electrical, and Plumbing**

- Appliance failure analysis.
- Pipe freeze events analysis.
- Fire protection system analysis.
- HVAC system analysis and design review.
- Consumer product investigations.
- Code research and review.

Professional Experience

- **Rimkus**

2023 – Present

- Consultant

Provides consulting services for legal, insurance, and corporate clients. Practice areas include mechanical systems, inspection and failure analysis, code research and review, passenger vehicle inspections and documentation, passenger vehicle event data recorder retrieval, commercial vehicle inspections, commercial vehicle data retrieval, and vehicle accident reconstruction.

- **Little Blue Home**

2018 – 2023

- Property Manager

Oversaw acquisition and construction of several properties, provided maintenance and repair services, and managed all financial records and accounting.

- **Self Employed**

2016 – 2018

- Contract Employee

Managed construction including design, permits, variance proposals, and contractor coordination, and drafted permit drawings.

- **Columbus Instruments**

2009 – 2011

- Research and Product Development

Designed, built, installed, and provided technical support for precise measuring, environmentally controlled systems used for medical research and innovation. Coordinated company transition to three-dimensional modeling software and documented all product parts and processes for manuals and promotional materials. Handled all communication and correspondence with clients and manufacturers for the mechanical department.

- **Robert Derector Associates**

2007 – 2009

- Project Engineer

Designed HVAC systems including tenant fit-outs, chiller plants, cooling towers, and UPS systems. Collaborated and managed design teams with architects, engineers, and contractors to provide fully coordinated construction documents, including detailed floor plans and equipment specifications. Provided feedback and support, addressing critical issues during the construction process. Retrofitted existing systems and conditions to create more effective solutions in evolving spaces. Specialized in green building processes as a former LEED Accredited Professional by the United States Green Building Council.

- **SEA Limited** 2005 – 2006
 - Student Intern
 - Participated in the Mechanical Engineering and Vehicle Dynamics groups in accident reconstruction, analyses, and biomechanics. Produced detailed calculations, analyses, and drawings for testifying experts. Performed biomechanical experimentation, data acquisition, and signal processing that contributed to research involving head accelerations during impact and injury causation.

Education and Certifications

- **Mechanical Engineering, B.S.:** Ohio State University (2007)
- **Engineer-In-Training Certificate:** #086209, New York, September 2009
- **Accredited Traffic Accident Reconstructionist:** ACTAR #5064
- **Certified Crash Data Retrieval (CDR) Technician**
- **Federal Aviation Administration Small Unmanned Aircraft Systems (UAS) Remote Pilot:** Certificate #4852275

Continuing Education

- **Institute of Police Technology and Management:** Bosch CDR Tool Technician Training
- **Bendix:** Comprehensive air brake training program
- **Pilot Institute:** Part 107 drone license training
- **Institute of Police Technology and Management:** Traffic Crash Reconstruction (2024); Commercial Vehicle Crash Investigation (2024); At-Scene Crash/Traffic Homicide Investigation (2023); Advanced Traffic Crash Investigation (2023)