



RESUME OF ASHLEY M. GIESA, P.E.

SUMMARY

Registered Professional Mechanical Engineer with experience in ventilation and plumbing system design and construction, green building systems, mechanical system, refrigeration, and appliance evaluation. Experience in accident reconstruction, failure analysis and 3-D modeling.

PROFESSIONAL EXPERIENCE

MDE Inc. – Seattle, WA (2010 to Present)

Forensic Engineering – Mechanical: Failure analysis of heating, cooling and ventilation systems for commercial and residential properties. Forensic evaluations and failure analysis for plumbing systems and components. Appliance failure analysis, pipe freeze investigations, and indoor air quality analyses. Code compliance for plumbing and ventilation systems. LEED compliant evaluations for energy performance, ventilation and refrigerant reduction requirements. Vehicular accident reconstruction and failure analysis including passenger car and low-speed collisions, time-distance analysis, perception-reaction time and visibility studies. Development of computer and 3-D modeling.

MacDonald-Miller Facility Solutions – Seattle, WA (2006 – 2010)

Project Engineer – Responsible for HVAC design-builds ranging from large commercial new construction buildings to smaller tenant improvements. Design responsibilities included 3-D modeling of HVAC and plumbing systems, mechanical/ electrical/ plumbing plan coordination and conflict resolution, construction management, field coordination, and equipment selection. Also assisted in green building design compliant with LEED standards using building energy performance analysis software, increasing ventilation, indoor air quality needs, and reducing the use of hazardous refrigerants in building equipment.

PROFESSIONAL REGISTRATION, CERTIFICATION

Professional Mechanical Engineer, State of Washington – #48944, (2011)

Accredited Professional (AP), Leadership in Energy and Environmental Design (LEED), (2009)

PROFESSIONAL ASSOCIATIONS

Member – American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), 2007 to present

Member – American Society of Mechanical Engineers (ASME), 2010 to present

Member – Engineers Without Borders, 2003 to present



EDUCATION & TRAINING

B.S. Mechanical Engineering, Washington State University, Pullman, WA, (2006)
ARC CSI Crash Conference Las Vegas, NV (2011)
Traffic Crash Reconstruction, Institute of Police Technology and Management (2010)
At Scene Traffic Crash Investigation, Institute of Police Technology and Management, (2010)
AutoCad MEP Training, (2008)
Buildex Seattle Conference, (2008)
Columbia Hydronics Plumbing Seminar, (2007)