



ADVANCED RESERVE SOLUTIONS

Paul Huijing, P.E.
Regional Vice President

Education:

Cornell University, Sibley School of Mechanical Engineering, Ithaca, New York

Master of Engineering Degree, 1987

Bachelor of Science Degree with Distinction, 1986

University of Massachusetts, Amherst, Massachusetts

Courses: Structural Analysis, Concrete Design, Wood Structural Design

Registered Professional Mechanical Engineer in Connecticut, Massachusetts, and Maryland

Entrepreneurial Experience:

Regional Vice President

Winter 2016 - Present

Advanced Reserve Solutions, division of Paul Huijing, Incorporated

www.arsinc.com/NewEngland

Prepare reserve studies for condominium associations, time share associations, and other entities needing building evaluations and financial budgeting for building and site repairs/replacements.

General Contractor:

Winter 2004 - Present

Paul Huijing, Incorporated

Construction and Engineering

<http://www.paulhuijing.com/index.html>

Founded Paul Huijing, Incorporated in 2004 with a goal of establishing a small personal construction company with time to focus on the individual needs of clients. Commitments to efficiency, organization, responsiveness, and knowledge make the company unique. An organized professional approach makes life easier/less stressful for customers. Quality scheduling and construction are a powerful combination for customers. A realistic completion date enables customers to accurately plan their move-in date.

Paul Huijing, Incorporated services include:

- **New Homes and Custom Additions/Renovations:** Huijing and his team strive to incorporate the best practices to insure superior long-term performance and specialize in accurate execution of construction details to eliminate common defects.
- **Forensic Analysis of Building Failures:** Paul and his associates will evaluate building failures and unsatisfactory building performance. Issues may include: moisture-related problems (mold, peeling paint, leaks), structural concerns, and material use concerns.

- Land Development: Huijing can evaluate land for potential development projects and spearhead the approval process. Paul's team creatively puts together options for maximizing land use while maintaining aesthetics and minimizing environmental impacts.
- Continuing Education Instructor for Massachusetts Construction Supervisor License holders.
- Construction dispute mediation and expert witness services

Forensic Engineer

Spring 2009 - Present

Cissell Investigative Engineering, Cromwell, Connecticut

Evaluate building failures and unsatisfactory building performance of all structure components from foundation to roof. Determine cause and responsibility. Evaluate damage severity and develop strategy for repair.

Mediator and Expert Witness

Spring 2013 - Present

Paul Huijing, Incorporated Construction and Engineering

Apply engineering and logical principles to construction disputes. Listen to evidence and form conclusions. Investigate to determine cause of failures. Construct timeline for events and verify losses.

Sales and Marketing Manager

Winter 2013 – Fall 2016

REinsulation, division of Paul Huijing, Incorporated

REinsulation reclaimed and sold useable rigid insulation boards from commercial flat roofs at our Chicopee Massachusetts warehouse. The insulation is in usable condition at approximately ½ the price of new insulation. This combination results in equivalent thermal performance for about 50% off cost of new insulation or twice the thermal performance at a cost similar to new. Reclaiming and reusing the insulation keeps the material out of landfills and lowers the embodied energy of a building.

Residential Construction Work Experience:

Construction Superintendent

Spring 1999 – Winter 2004

Dan Roulter and Associates, Somers, Connecticut

Built eight to twelve new homes per year. Scheduled and supervised all phases of residential construction from site plan concept through final punch list and warranty repair. Responsible for customer relations, pricing of change orders, and tracking financial performance.

Mechanical Engineering Work Experience:

Project Engineer

Spring 1995 - Spring 1999

Westvaco Corporation, Envelope Division, Springfield, Massachusetts

Coordinated entire machine design/build process from concept and estimating through bidding, construction, and installation. Designed and detailed machine sections for envelope folding machines. Designed safety guards and devices for major safety improvement program. Procured parts. Supervised installation and troubleshooting of designed equipment. Supervised supporting design engineers.

Team Leader

Spring 1994 – Spring 1995

Westvaco Corporation, Laurel Technical Center, Laurel, Maryland

Responsible for fine papers product research and development. Supervised activities of research engineers and support staff. Research team focused on continuous improvement of existing products and development of new products and processes. New paper calendering process published in United States Patent Number 5,425,851.

Research/Senior Engineer

Fall 1987 – Spring 1994

Westvaco Corporation, Laurel Technical Center, Laurel, Maryland

Designed, supervised, and analyzed process studies improving coated fine paper properties. Worked closely with mill personnel to develop effective machine trials. Conducted experiments for capital equipment sizing and specification. Participated in start-up of new equipment purchased as a result of these quality improvement studies. Analyzed competitive position of standard and experimental products.

Relevant Publications:

Articles for the Journal of Light Construction, a monthly magazine serving residential builders, remodelers, designers, and other trade professionals:

- “Basic Scheduling for Increased Efficiency” highlighted Paul’s system for building a home efficiently and on time.
- “Building an Energy Efficient Spec House” describes the techniques Paul uses to reduce heating and cooling energy usage by 50% compared with a typical new house.
- “Turning an Outbuilding into an Office” describes an energy retrofit to a barn to house a comfortable home office.
- “A Bridge from Two Flat Cars” details the construction of an innovative bridge across wetlands and a seasonal stream to access two home sites.

Continuing Education Instructor:

Continuing education instructor for Massachusetts Construction Supervisor License holders.

Fall 2012 - Present

- Courses administered by Home Builders and Remodelers Association of Western Massachusetts:
 - Developed curriculum for following 2-hours courses
 - “Building and Operating a Super-Insulated Home,”
 - “Insulation Types, Installation Methods, and Limitations”
 - “Keeping Moisture Out: Flashing Details to Prevent Water Intrusion”
 - “Building an Airtight House”
 - Original course developed at University of Massachusetts - Lowell
 - “Fall Protection and Silica Safety”
 - Course extensively modified to enrich content
- “Building an Airtight House” course administered by Center for Ecotechnology (CET)
 - Developed in partnership with CET, 6-hours
 - Presented as an 8-hour course with Mark Newey at NESEA Building Energy 13 Conference
- High R-Value Walls course administered by CET
 - Developed in partnership with CET, 2 and 6-hour versions
 - Presented 2-hour course at NESEA Building Energy 13 Conference

Western New England University:

- Advisor for Solar Decathlon team project, 2015
- Conducting/advising student project examining moisture in reclaimed extruded polystyrene rigid insulation, 2015
- Adjunct professor, Spring 2016
 - Adjunct lecturer position in Civil Engineering Department
 - Teach undergraduate senior level course in Construction Engineering
 - Course focused on engineering project management.

Community Involvement:

- Minnechaug High School Building Committee, Hampden-Wilbraham Regional School District
 - Ten year involvement 2005 - 2015
 - Chairman of Project Manager Selection Subcommittee
 - Chairman of Materials and Finishes Subcommittee
- Minnechaug High School Facility Study Committee, Hampden-Wilbraham Regional School District, 2004 - 2005
- Wilbraham Public Library Renovation Committee, 2015
- St. Cecilia Knights of Columbus Council 10195
 - Leadership positions culminating in Grand Knight 2015-2016
 - Thanksgiving Food Drive, perennial chairman

Professional Affiliations:

- Massachusetts Construction Supervisor #075724
- Massachusetts Home Improvement Contractor #149774
- Professional Engineer: Massachusetts #41228; Connecticut #23475; Maryland #18563
- Home Builders Association of Western Massachusetts, Board of Directors, Secretary
- Home Builders Association of Massachusetts, Board of Directors
- American Society of Mechanical Engineers

Ironman Triathlon Finisher:

- Lake Placid, New York 2014
- Mont Tremblant, Quebec, Canada 2016