

**David A. Hurley**  
**dahurley@gmail.com**

**Permanent Address:**  
6332 Waterway Drive  
Falls Church, VA 22044  
Phone (703) 256 -3853

**School Address:**  
8 Valley Ridge Road  
South Burlington, VT 05403  
Cell phone (703) 864-5130

---

**EDUCATION**

**University of Vermont, Burlington, MS, Mechanical Engineering,** concentration in solid mechanics

*February 2008*

**Master's Thesis** Design and implement collectors and measurement devices to characterize copper debris generated during laser-solid-plasma x-ray generation for ultra-high-precision lithography.

**Additional Research** Procure and evaluate advanced materials for use in self-healing cables.

**University of Virginia, Charlottesville, BS, Mechanical Engineering**

*May 2005*

**Senior Thesis** Manufacture ultra-low-density aerogels having the same radiographic properties as human lung tissue. These were housed in a custom-machined PMMA housing for testing Computed Tomography (CT) scanning technology in diagnosing emphysema.

**CERTIFICATIONS: Certified Engineer-In-Training (EIT)**

*April 2005*

**EXPERIENCE**

**Graduate Research Assistant, Burlington VT;**

*2006–Present*

Worked on thesis research, focusing on development of design concepts and selection of high-performance materials for use as debris windows and shields.

**Graduate Teaching Fellow, Burlington VT;**

*2005-2006*

Assisted in the teaching and administration of courses offered by the University of Vermont department of Mechanical Engineering.

**Lake Barcroft Watershed Improvement District, Falls Church VA**

*Summer 2005*

Produced a report on the feasibility, procedures, and costs for replacement of several major components of the Lake Barcroft Dam. Included examination of current component specifications, contacting possible manufacturers, evaluating manufacturers' responses, and formulating a plan for installation. The final report contained all findings and a recommended course of action.

**Fernandez and Associates, Falls Church VA;**

*July-August 2004, January 2005*

Assisted in various tasks at this structural engineering firm, including coordination of drawings, proofreading of structural and shop drawings, some basic structural design, and computer modeling of an 11-story office building. Gained experience in the business aspect of engineering through meetings with owners, architects, contractors, and other engineers.

**Engineering Consulting Services, Chantilly VA; Field Technician**

*May-June 2004*

Performed on-site testing and sampling of construction materials. Earned Washington Area Council of Engineering Laboratories (WACEL) certifications as an Inspector in Concrete I, Soils I, and Shallow Foundations. Was responsible for the quality control of various structural elements on large construction projects in the Washington D.C. area, including concrete quality and placement, soil compaction, footing inspections, and placement of reinforcing bars.

**COMPUTER SKILLS**

Proficiency in MS Word, Excel, and PowerPoint, MathCAD, MATLAB, Mathematica, and SolidWorks. Experience with AutoCAD, Sprint Finite Elements Package, Microsoft Visual C++, Adobe Premier, RAM structural package.