

Gretchen Elyse Heberling

Address: PO Box 1325, Laramie WY 82073 e-mail: college@gretchenheberling.com Tel. 307-399-5837

I am most interested in architectural engineering, large-scale building construction, and would enjoy any assignment associated with structural integrity, modern design, new materials testing, LEED (“green”) certification, and business processes associated with complex projects, particularly for large structures. My minor is the University of Wyoming Honors Program with a Minor in Music (Violin Performance). For my Masters Degree, I intend to pursue an MS in High Performance Buildings (Building Technology) with emphasis on building information modeling (BIM), evaluation of new materials, integrated automation systems for reducing energy consumption, and improved recycling. I am proficient in Revit design and Autodesk Ecotect energy analysis software.

University of Wyoming, August 2008 – Present,

Architectural Engineering with Honors (ABET Certified Civil Engineering program), Minor in Violin Performance

ENGINEERING / ACADEMIC ACHIEVEMENTS:

- 2011 **LEED GREEN ASSOCIATE certification received** in November 2011
- 2008-11 **UW Peak Achievement Scholar (All Semesters to the present time)**
- 2011 **Winner, prestigious Lee Evans National Housing Endowment Scholarship and Vanguard Group Women in Information Technology Scholarship, and Assoc. of Civil Engineers YC Yang award**
- 2010 **UW Summer Fellowship, Winner, EPSCoR Grant Program**, for research on light manufacturing small businesses (business development, facility retrofitting, capital planning, sustainable engineering practices)
- 2009-11 **Honors Program Scholar** at the University of Wyoming (UW), **Honor Stipend Winner** from 2008 through the present, with **additional nonrenewable awards** from:
- 2009-11 The Construction Management Association of America (CMAA), Nat’l Association of Women in Construction NAWIC, The Society of Weatherproofing and Sealants, Society of Women Engineers Rocky Mountain Chapter, AACE Assoc. of Cost Engineers, DoD SMART Technology Finalist, and AIAA Leadership Award, AREMA Railway Engineering Association, Women in Transportation Society, and American Concrete Institute (Rocky Mountain Chapter).
- 2009 – **WY Mining Association Award Winner** – “Most Innovative Solution”– an on campus competition
- 2008 – **Northrop Grumman Freshman Engineering Scholarship**, Winner, Caroline County, Maryland. This elite award is given to one student per county, in states where Northrop Grumman has significant presence.
- 2007 – **“Human Powered Vehicle”, Team Leader**, Winning Team, Advanced Technology Class
- 2007 – Accepted into **Maryland Caroline County “More Able” Program** for gifted students, taking Integral Calculus and Geopolitics courses at Washington College in Chestertown, MD
- 2005-6 Took courses at Franklin and Marshall College, Lancaster, PA (“Game Theory”, “Geopolitics”, and “Philosophy of Mind”) as part of the **Johns Hopkins Center for Talented Youth Program (CTY)**

COLLEGE ACTIVITIES AND NON-ENGINEERING COLLEGIATE AWARDS:

- President**, University of Wyoming Mortar Board Honor Society, elected in April 2010 for 2010-11 school year
- 2008 –11 **First Violinist**, UW Chamber and Symphony Orchestras, all semesters
- 2008 –11 **McElhone Symphony Association scholarship winner**, awarded to students not majoring in music, but with advanced musicianship skills. Winners participate in UWYO symphonic and chamber music functions.
- 2010 **Radio Host**, “Campus Updates” UW Student Radio UWSR (Saturday Music Hour - two semesters)
- 2008 – 09 **University of Wyoming Honors Senate** – Social Activities organizer, September 2008 – May 2009
- 2009-10 **Honors Program Teaching Assistant** and **Peer Assistant** for Orientation to Engineering
- 2008 – **2nd place** at the **Rocky Mountain String Festival Concerto Competition**, Laramie, WY
- 2008 – Received **AP Scholar** with Distinction Award from the College Board for high scores on 5 AP tests

COMMUNITY ACTIVITIES AND NON-COLLEGIATE AWARDS:

General Member: American Society of Civil Engineers (Active Member), Soc. Manufacturing Engineers (SME), American Institute of Aeronautics and Astronautics AIAA (Member), Society of Women Engineers SWE, Active Member, National Association of Women in Construction NAWIC (Active Member), Nat'l Society Professional Engineers NSPE (New Member), Tau Beta Pi, American Concrete Institute (Active)

- 2011 – **Featured in the February 13th Laramie Boomerang newspaper**, for an architectural design presentation making innovative use of lighting, for the Fox Theatre Redevelopment Project in Laramie
- 2008 – **'Free Enterprise' Winner, National Federation of Independent Businesses.** I was given this award for founding **Capital Players**, a company that provides violin and chamber ensemble services for weddings, parties, and commercial events. This company was active in the Washington DC area from 2005 until I moved to Wyoming.
- 2008 – Scholarship Winner, **National Association of Women Business Owners – Baltimore Chapter.** I spoke to the Baltimore Chapter on how I marketed the business.
- 2005 – **Apprentice, Design Apprenticeship Program at the National Building Museum, Washington DC**
- 2006 – St. John's College High School poetry contest 1st place winner, and **Art Team Captain** (with Departmental Award)

Interests: WY Roller Derby, rock climbing, cycling, hiking, cross country skiing

PROFESSIONAL DATA:

- 09/2010 - Present **Grader, Engineering Dynamics and Mechanics of Materials Classes**
- 06/2011 - 08/2011 **Teaching Assistant, Principles of Engineering Design, Lafayette College, Easton PA**
- 05/2010 – 09/2010 **Funded research, full-time employment, University/NSF EPSCoR Grant** (see above)
- 01/2010 - 05/2010 **Teaching Assistant, University of Wyoming, Honors Program English Honors Colloquium.** Lead class discussions, after class support, grading, attendance taking, office tasks, and support to the professor. P/T
- Fall 2009 **Peer Assistant – Lab –** For “Orientation to Engineering Class”, laboratory setup and clean-up. P/T
- 2005 – 2009 **Business Owner/ Operator (DC – Maryland – Wyoming)**
In 2005, I played my violin for tips around the DC metro area at outside markets and fairs, and gave away business cards. Gradually, through word of mouth, I gained a base of customers. In 2006 I formed a MD Sole Proprietorship, **Capital Players** (Tax ID EIN 20-8316212). To increase business, I developed a web site (www.capitalplayers.com) and also created a demo CD for prospective customers. Using the Internet and local newspaper advertising, the business grew. I played for many weddings, catered events, and embassy functions. I hired additional musicians as needed. I handled all contracts, negotiations, marketing, taxes, billing and accounting for the company. Capital Players played for 4-5 events per month, each lasting 2-6 hours. While active in the DC area, it is largely inactive in Laramie. This business does best near urban centers.
- Summer 2009 **Ace Hardware, Laramie WY. Full-time employment.** Store assistant responsible for customer service including such tasks as mixing paints and making keys, stocking of inventory, updating item prices, store clean-up, and cash register operation. F/T employment.
- Spring 2009 **Clay Paper Scissors, Cheyenne WY.** Design support for an art gallery. Created alternative layout solutions, and modeled the interior space in to-scale diagrams. The job spanned several months (40 hours total effort)
- 01/2007 – 06/2008 **Shop Assistant, Gates2U. Maryland.** Helped sand lumber, stain and build custom gates, and ship them. After-school employment.
- 01/2005- 08/2007 **Shop Assistant, Urban Revivals LLC, DC** , historic restoration services for Victorian homes. I helped prepare on-site work locations for historic restoration work, created and applied glazes for specialty ceiling tiles, cleaned up the worksite, and create packing and shipping labels for UPS deliveries. Part-time.