

# Nathaniel P. Wilkerson

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**OBJECTIVE:** To obtain employment and further my education and experience in residential structural engineering, residential design, architecture and construction related fields.

**ACCREDITATIONS:** - **Professional Engineer (PE)**, Washington, Dec. 2012  
License #: 49996/WA  
- **Professional Engineer (PE)**, Utah, Feb. 2014  
License #: 8947414-2202/UT

**EDUCATION:** - **B.S. from Brigham Young University**, 1990-1991, 1993-1998  
Major: Mechanical Engineering  
Minors: Math, Japanese  
(GPA = 3.67)  
  
- **High School Diploma**, 1990  
Caledonia Senior Secondary, Terrace B.C. Canada  
(GPA = 3.97)

## **WORK EXPERIENCE:**

- **Structural Eng. - Medeek Engineering Inc.**, May 2014-Present  
Residential structural engineering of residences, garages, remodels and misc. structures. Design building and site plans for various residential and commercial building projects, per IBC and IRC 2012. Custom program for calculating loads of common trusses and associated engineering utilizing ANSI TPI 1-2007 and ASCE 7-10.  
<http://design.medeek.com>
- **Stress Engineer**, Sept. 2013- May 2014  
Pacifica Engineering, Inc: Stress and structural analysis for aerospace tooling for Boeing and AMRO. Seismic and Structural analysis with STAAD. FEA analysis with ALGOR. Aerospace tooling design and drafting with Catia V5.
- **Project Engineer and Architect**, Jun. 2012- Jan. 2013  
Quinault Indian Nation: Designer and engineering manager for the Pt. Grenville Site Development. Responsibilities and projects were:

Master Site Plans, Civil Plans, Cultural Center, Carving Shed,  
Structural Drawings for Totem Poles and Bridge using Solidworks,  
Sketchup and AutoCAD.

- **Mechanical Engineer**, Oct. 2007- Jun. 2012  
Electroimpact Inc.: Design of large gantry style carbon  
fiber tape laying machines for aerospace industry. Machine design  
with Solidworks, Catia, AutoCAD and FEA with ANSYS/COSMOS.
- **Structural Analyst & Head Engineer**, Feb. 2007-Oct. 2007  
Goodcrane Corporation: Main/Aux Boom Design and FEA  
analysis of large scale knuckle boom cranes using SolidWorks  
and COSMOS. Custom programming to determine reaction forces,  
shear forces and moments at various configurations and loads.
- **Native Artist - Wilkerson Art**, Aug. 2006-Present  
Prints, Carvings, Paintings, Metalwork/Jewelry  
Trained by Freda Diesing and David A. Boxley.  
<http://www.wilkersonart.com>
- **CEO of NPS Internet Solutions, Inc.**, Aug. 1999-Dec. 2006  
Founded and managed the day-to-day operations of  
a Utah based web hosting and domain registration company.  
Extensive programming with Perl, HTML, Javascript and MySQL.
- **COO of Wasatch Building Supply, Inc.**, Jan. 2003-July 2005  
Manage the key day-to-day operations of this roofing and  
building supply company. Extensive work with vendors and  
manufacturers in the building supply business.
- **R & D Engineer**, Apr. 1999-Aug. 1999  
Full time position at IBM's Almaden Research Center in  
San Jose, CA. Extensive programming with Matlab,  
and characterization of surface roughness of disk substrates.
- **Assistant Engineer**, Jul. 1996-Jan. 1997  
Designing and troubleshooting of production lines for the  
manufacturing of cabinets and showcases at Jahabow Industries.
- **Linguist and Culture Specialist**, Dec. 1995-Aug. 1999  
One weekend a month commitment with the Utah National  
Guard as Japanese interpreter and translator (97L)
- **Engineer's Assistant**, Oct. 1994-Feb. 1995  
Temporary position at US Synthetic streamlining new and  
existing production machines and their related processes.

- SKILLS:**
- Extensive experience with SolidWorks 2004-2013  
CATIA V5 and AutoCAD R12 – 2013 with Autolisp.
  - Other CAD/Math applications (ANYSYS, COSMOS, Matlab, ALGOR, STAAD, RISA-2D)
  - Codes: IBC 2012/2015, IRC 2012/2015, ASCE 7-10, ASME BTH-1-2011, AISC 360-10, AWC NDS-2012, AA ADM 1-2010, ANSI TPI 1-2007/2014.
  - Experience managing and operating small businesses.
  - Speak Japanese, read and write over 40% of the Joyo Kanji
  - Training in translation of written documents as well as the spoken word in Japanese through the Utah National Guard
  - Experience in programming with C++, Perl, PHP, HTML, MySQL.
- ACHIEVEMENTS**
- Academic Scholarship-BYU, 1993-1995, 1996-1998
  - Army Commendation Award for academic excellence.
  - National Dean's List, 1990-1991
  - Freshman Physics Award-BYU, 1990-1991
- PERSONAL:**
- Proud father of 5 children, ages 8 thru 14.
  - Enjoy mountain climbing, walking, jogging, and weightlifting.
  - Married September 2, 1995 to Cynthia J. Adams.
  - Served a two year mission for the LDS church in Japan, 1991-1993
- REFERENCES:**
- Michael McGivney, Ocean Shores, Washington (360)-289-2754
  - Joost Zeegers, Bellingham, Washington (360)-676-2659
  - Mark Sigler, Montesano, Washington (360)-242-4222
  - Andrew Purvis, Mukilteo, Washington (425)-609-4924
  - Carter Boad, Mukilteo, Washington (425)-609-4972
  - Patrick C. Ekman, Mountain View, California (801)-400-6680
  - Ken Jarvis, Pleasant Grove, Utah (801)-375-2375