



# Nathaniel P. Wilkerson

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**OBJECTIVE:** To obtain employment and further my education and experience in engineering and architecture related fields.

**ACCREDITATIONS:** - **Mech. Eng. PE**, Washington Dec. 2012  
License #: 49996/WA

**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:

- **Stress Engineer**, Sept. 2013- Present  
Pacifica Engineering, Inc: Stress analysis for aerospace tooling for Boeing and AMRO. FEA analysis with ALGOR and STAAD. Aerospace tooling design and drafting with Catia V5.
- **Project Engineer and Architect**, Jun. 2012- Jan. 2013  
Designed and managed the Pt. Grenville Development for the Quinault Indian Nation including but not limited to:  
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>
- **Designer/Architect - Medeek Design Inc.**, Aug. 1999-Present  
Designed and generated building and site plans for various residential and commercial building projects and plans.  
Work as consultant in designing and prototyping an industrial commodity hauler. Custom program for calculating loads of common trusses and associated engineering.  
<http://design.medeek.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 (ANSYSYS, COSMOS, Matlab, ALGOR, STAAD)
- Experience managing and operating small businesses.
- Speak fluent Japanese, read and write over 60% 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
- Enjoy mountain climbing, 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:**

- Andrew Purvis, Mukilteo, Washington (425)-609-4924
- Carter Boad, Mukilteo, Washington (425)-609-4972
- Brent Thayer, Mukilteo, Washington (425)-609-4913
- Patrick C. Ekman, Mountain View, California (801)-400-6680
- Ken Jarvis, Pleasant Grove, Utah (801)-375-2375