

Nathaniel P. Wilkerson

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OBJECTIVE: To obtain employment and further my education and experience in residential structural 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. 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.
- **Designer/Structural Eng. - Medeek Design**, Oct. 2010-Present
Designed and generated building and site plans for various residential and commercial building projects.
Custom program for calculating loads of common trusses and associated engineering utilizing ANSI TPI 1-2007 and ASCE 7-10.
<http://design.medeek.com>
- **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)
- 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