

Geoffrey H Wathen

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PROFILE

I am a dynamic veteran problem solver with over ten years of experience in advanced research, 3D mechanical engineering design, website development, and graphic design. My oral and written communication skills are excellent, and I have developed good presentation skills through both business and teaching experience. High proficiency with computers makes learning new software easy for me, and I am thoroughly familiar with a wide variety of software including:

Design Software

- SolidWorks Office Professional
- AutoCAD Mechanical Desktop
- VectorWorks Designer

Graphics Software

- Adobe Creative Suite
 - Photoshop, Illustrator, InDesign

Office Software

- Microsoft Office
 - Word, Excel, PowerPoint, Access
- Apple iWork
 - Pages, Keynote, Numbers
- Filemaker Pro

ENGINEERING AND INDUSTRY EXPERIENCE

Consulting and Contract Work, Corvallis, OR

2009-Present

Self Employed

- ♦ Modeling Projects for Rapid Prototyping and Sale through 3D printing services.
 - Developed a line of small scale model railroad equipment
 - Designed a variety of highly detailed space ship miniatures
- ♦ Contract design engineering work for local design firms.

This time has also been a period when I have been a stay-at-home parent. I have continued to work to keep my skills reasonably sharp through limited contract and design work. Starting in late 2014, with my children now in school, I have returned to full time contracting work.

ATS Systems Oregon, Corvallis, OR

2007-2009

ATS specializes in custom designed tooling and automation systems

Mechanical Engineer II

- ♦ Worked as Team Lead on a cutting edge design project for the pharmaceutical industry. Managed resources and relationships with procurement, sales, applications and electrical engineering departments. Worked directly with the customer to develop project. Development effort included:
 - Rapid Prototype products for Research & Development of plastic injection molded products
 - Development of testing and certification procedures for machine components
 - Research & Development of designs for IP
 - Industrial Design development of overall machine appearance.
- ♦ Worked as design engineer on a variety of projects ranging from wet-bench design for the solar industry to automotive component assembly lines.

Consulting and Contract Work, Tucson, AZ / Oakland, CA

2003-2006

Self Employed (during graduate school and teaching)

- ♦ Minor 3D CAD design projects.

University of Arizona, Department of Physics, Tucson, AZ

2001-2004

Major Research University

Graduate Associate - Research Associate

- ♦ Dr. Srin Manne's Atomic Force Microscopy (AFM) lab.
 - developed micro-dot generation concepts, methods and applications
 - worked with innovative methods of micro-contact printing
 - performed dissimilar crystal lattice growth experiments and computer simulations
- ♦ D-0 group at Fermi Lab Particle Accelerator in Chicago
 - Modeling proton / anti-proton collision events
 - Filtering data from modeled and actual collision events to detect certain particles

Micro-Trains Line Company, Talent, OR **1999-2001**

The Premier American N- and Z-scale Model Railroad Manufacturer

Chief Research and Development Design Engineer

- ♦ Acted as New Project Manager, supervising projects from concept to final product; through design, tooling, plastic and die-cast injection molding, decorating, assembly and packaging.
- ♦ Researched new projects in the standard line of model rail cars, determine design specifications.
- ♦ Designed specialty tooling and assembly fixtures.

Amadra IV Robotics, Portland, OR **1998-1999**

Amadra IV Robotics was a firm that I founded specializing in custom engineering design applications

Owner

- ♦ Custom designed projects such as
 - Engineering test fixtures
 - Remote sensory applications
 - Small scale process automation
- ♦ Worked as salesman and marketing designer, accountant, web designer and design engineer.

Engineering & Prototype Services, Portland, OR **1996-1998**

EPS specialized in custom designed fixtures and tooling

Design Engineer

- ♦ Designed custom tooling ranging from CMM fixtures to custom robotic welding fixtures.
- ♦ Functioned as a customer liaison, assisting with customer service calls and creating quotes.
- ♦ Worked one-on-one with machinists, learning details of manufacturing processes.

Northwest Energy Services, Spokane, WA **1995-1996**

NWES specializes in energy conservation work for major industries, and cogeneration development

Engineering Assistant (during undergraduate school)

TEACHING POSITIONS AND EXPERIENCE

Golden Naga Martial Arts Center, Corvallis, OR **2006-Present**

Taught the art of Pukulan Tjiminde to students of all ages.

The Quarry Lane School, Dublin, CA **2004-2006**

Middle School Science Teacher

University of Arizona, Department of Physics, Tucson, AZ **2001-2004**

Graduate Associate - Teaching Assistant

EDUCATION

University of Arizona Tucson, Arizona **2001-2004**

Masters of Science in Physics **G.P.A.: 3.7**

Gonzaga University Spokane, Washington **1994-1997**

Bachelor of Science in Mechanical Engineering **G.P.A.: 3.59**

Reed College Portland, Oregon **1991-1992**

Pukulan Tjiminde an Indonesian martial-art discipline **1990-Present**

Third Degree Black Belt

VOLUNTEER WORK

Corvallis Historic Resources Commission **2009-2014**

Web Site Development and General Computer Technical Support **2002-2006**

- ♦ Univ of Ariz Catholic Newman Center (2002-2004); Studio Naga Martial Arts Center (2004-2006)

HOBBIES AND INTERESTS

- ♦ Computer Programming; Writing; Painting; Photography; Fishing; Horseback Riding; Theater

REFERENCES

- ♦ On Request