

# DESIGN AND ENGINEERING

John Middendorf

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## EDUCATION

### **Penn State, Geographic Information Systems**

Currently enrolled in GIS Masters Program.

### **University of New South Wales, Engineering and Architecture Departments, 2003**

Studies in engineering CAD and computers in architecture.

### **Harvard Graduate School of Design, 2001**

Master in Design Studies: emphasis on climate-specific building design, and urban planning.

### **Stanford University**

Bachelor's of Science, Mechanical Engineering, 1984, degree with honors.

## PROFESSIONAL EXPERIENCE

### **Desert Light Structures, Flagstaff, AZ**

Architect and Engineer

--design and construction of tension fabric structures in the Colorado Plateau area, 2001-present.

### **Black Diamond Equipment, Salt Lake City, UT**

Design Consultant, 2000-2001

--Prototyping and implementation of new product line for premier outdoor gear company.

### **Xdogs.com, Minneapolis, MN**

Director of Design, 1999-2000

--Consulting and design of outdoor clothing and equipment for internet start-up firm.

### **The North Face, San Leandro, CA**

Senior Product Manager, 1997-1999

--Management and creation of new tent and backpack product lines.

--Establishment of a 2000 ft<sup>2</sup> prototype workshop and facilitation of innovative teamwork.

### **A5 Adventures, Inc., Flagstaff, AZ**

Founder and President, 1987-1997

--Invention and production of the hanging cliff tent capable of extreme weather conditions which opened expeditionary big wall rock climbing to a worldwide audience.

--Small Business Management with 10 employees manufacturing extensive product line.

--Creation of a successful World Wide Brand: A5 (company was sold to The North Face in 1997).

## HIGHLIGHTS OF QUALIFICATIONS

20 years experience in product design and development.

Skills in organizing work flow, materials, ideas and people.

Skills in writing, publishing, website production, and presentation.

Broad knowledge of traditional and modern architectural materials.

Experience with energy simulation and analysis of buildings.

Extensive study and experience in fabric construction and design.

Strong skills in innovation, and computer aided design and manufacturing.

Skills in mapping, GPS map-grade surveys, and other GIS facets.

Software skills include Autocad, Patran/Nastran, ProEngineer, Solidworks, Fluent, ArcGIS.

*References and honors available on request*