

John Middendorf
Design and Engineering

HIGHLIGHTS OF QUALIFICATIONS

- 25 years experience in management, product design and development
- Strong skills in organising work flow, ideas, materials and people
- Skills in writing, publishing, website production, and presentation.
- Substantial entrepreneurial skills and successful business enterprises
- 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.

PROFESSIONAL EXPERIENCE

Design & Innovative Engineering

- Developed, patented, and produced fabric and machined products. Production examples include the world's most weatherproof vertical cliff tents, waterproof packs, and other innovative outdoor tools.
- Established both prototype and production facilities (sewing and machine shops).
- Created partnerships with manufacturing contractors (for new fabrics and products).
- Software skills include Autocad, Patran/Nastran, ProEngineer, Solidworks, Fluent, ArcGIS.

Marketing & Management

- Founded and managed A5 Adventures, which in ten years became the worldwide leader in big wall climbing equipment, with 11 employees and annual sales of \$400,000.
- Designed and produced printed product catalogs, ads, and promotional material.
- Extensive computer skills with desktop publishing, accounting, and web sites.
- Over 100 speaking and slide show engagements, with audiences of up to 700 people.
- Proven ability to organise and complete complex projects.

Outdoor Accomplishments

- First successful ascent of Great Trango Tower in Pakistan, the world's largest vertical cliff, and other numerous first ascents of big wall rock faces in Yosemite and Zion National Parks.
- Rigger and manager of teams of riggers for nationwide TV shows and commercials, involving leadership and diplomacy in forging links between clients and rigging teams.
- Rock climbing guide on various long rock climbing routes, including El Capitan in Yosemite.
- Host and director of one hour TV show on Canyoneering, "To The Edge".
- 15 years Search & Rescue experience with Yosemite and Zion National Parks.
- Founder of Friends of Yosemite Valley, which initiated the process that saved Camp 4.
- Published author of books and articles in national and international periodicals, including "How to Rock Climb—Big Walls" with over 25,000 copies in print.
- Featured designer in Italian design magazine Abitare for portaledge design.
- Professional Grand Canyon River Guide.
- Board member, American Alpine Club.

Employment History

- 2005-2011 Programmer and Consultant, Lynx Geosystems (Colorado & Hobart, Tasmania)
--Programmed custom interactive web maps, creator of patent-pending GIS tools.
- 2005-2006 Staff Journalist, The Pagosa Springs SUN (Pagosa Spring, Colorado)
--Writer of over 100 feature stories for the town newspaper.
- 2000-2005 Architect and Engineer, Desert Light Structures (Flagstaff, Arizona)
--Designed and manufactured residential-scale tension-fabric structures.
- 1997-2000 Senior Product Manager, The North Face (San Leandro, California)
--Managed the company's A5 Division; designed and produced technical outdoor gear (tents, packs, climbing gear).
- 1986-1997 Designer, Manufacturer, Manager of A5 Adventures, Inc. (Flagstaff, Arizona)
--Entrepreneured and managed successful company with 10 employees which designed and manufactured world-renown rock climbing gear (company sold to The North Face in 1997).
- Pre-1986 —Various guiding, rigging, adventure TV show-hosting, and slide shows.
—Author of climbing books and numerous magazine articles.
—Yosemite Search and Rescue Team (1983-1987)
—Telluride Mountaineering School Guide (1977-1979)
—Engineering Lab Intern, Congressional Intern, Pacific Northwest Logger.

Education

- 2011-2012 University of Tasmania
Master of Teaching
- 2005-2006 Penn State
Graduate Certificate in Geographic Information Systems
- 2003 University of New South Wales
Engineering and Architecture studies: 3D modelling, computational fluid dynamics (CFD), finite element analysis (FEA), programming
- 2000-2001 Harvard University Graduate School of Design
Master in Design Studies
- 1978-1983 Stanford University, USA
Bachelor's of Science, Mechanical Engineering

Volunteer Work

- Board member of the American Alpine Club.
Former board member for Grand Canyon Youth.
Volunteer river guide for disabled individuals and youth at risk.
Search and Rescue in Yosemite and Zion National Parks (technical climbing division).
Elected Town Councillor in Pagosa Springs, Colorado (2006-2008)
Volunteer computer consultant for non-profit Tasmanian Land Conservancy.