

# Joe Smith

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**Objective** Launch a career in wind energy. Apply knowledge and experience to wind energy projects worldwide. Work with other motivated people to achieve success.

**Education** **APPALACHIAN STATE UNIVERSITY** Boone, NC  
Master of **Industrial/Appropriate Technology** May 2008

- Graduate Assistant (GA) for Western North Carolina Renewable Energy Initiative: present workshops, consult on projects, evaluate resources, & partner with industry
- Work with local NGO desiring to install medium-scale wind turbine
- Other efforts: redesign biodiesel distillation, sustainable green house design, solar thermal research, international business development, significant software knowledge
- Manage \$65,000 photovoltaic installation, advise on campus wind turbine installation

**UNIVERSITY OF NOTRE DAME** Notre Dame, IN  
Bachelor of Science in **Aerospace Engineering** May 2001

**Work Experience** **Systems Support Manager** Kodiak, AK  
*Alaska Aerospace Development Corp. (AADC)* Feb 2005 – July 2006

- Site manager for remote telemetry station (30 personnel at launch time)
- Command Destruct Operator for Range Safety and Telemetry System (RSTS)
- Test and troubleshoot 1kW transmitters used to destroy rockets which go off-course
- Successfully participated in 3 suborbital launches & 1 month of certification testing.
- Organizational skills applied to logistics, documentation, configuration control, purchase orders, inventory management (\$1.5Million of critical spares for RSTS)
- Performed Radio Frequency Interference and safety surveys

**Instrumentation Engineer** Kodiak, AK  
*Rise Alaska, contractor to AADC* May 2004 – Jan 2005

- Meteorological team member during launch from Kodiak Launch Complex
- Assisted VP of Launch Operations with documentation, procedures, & presentations

**Research Assistant** Notre Dame, IN  
*University of Notre Dame* Summer 2001

- Analyze wing-tip vortices

**Other Employment** **Volunteer Teacher** Tanzania, Africa  
*Peace Corps Volunteer* Oct 2001 – Dec 2003

- Provided academic leadership to students and staff in a physically, socially, and emotionally challenging environment, with limited resources
- Integrated into village life and helped community deal with AIDS and other crises
- Designed fuel efficient stoves and initiated a program for village residents to build and sell the stoves as a self-sustaining business

**Deluxe Sheet Metal Co.** South Bend, IN  
*Pre-Apprentice* Summer 2000

- Supply chain management & lean engineering principles

**Casteel Construction Corp.** South Bend, IN  
*Laborer* Summer 1997, 1998

- Became the leader of other college-aged laborers on large-scale construction projects

**Achievements, Skills, & Interests** Passed Engineering Intern Examination, step 2 of 4 toward becoming a Professional Engineer  
Proficient in several Windows operating systems and many Microsoft Office applications  
Weekly use of: Wind-PRO, Windographer, RETScreen, Homer, NRG Symphonie, ArcGIS  
Former *President*, Notre Dame Chapter of American Institute of Aeronautics & Astronautics  
Former *Chief Welder*, Notre Dame Society of Automotive Engineers, and Irish Racing Team  
Private Pilot, SCUBA diver, HAM radio operator, Eagle Scout, Ironman triathlete, bagpiper