Regina Sweet

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EDUCATION

University of California-Davis *Davis, CA | 2004*
Master's of Science in Mechanical and Aeronautical Engineering
Thesis: Wind Field Forecasting in Complex Terrain for Siting and Power Output Prediction

The University of Washington *Seattle, WA | 2002*
Bachelor of Science in Mechanical Engineering

Defensive Language Institute *Monterey, CA | 1995*
Arabic

EXPERIENCE

Garrad Hassan *Portland, OR | 2008*
Assistant Project Manager, Due Diligence Team

- Reviewed turbine supply agreements and warrantees and balance of plant contracts
- Compared project budgets with current industry standard
- Assisted Project Managers in analyzing project pro forma
- Performed site inspections
- Evaluated budget variances and construction cost variances
- Reviewed monthly operating reports and evaluate project performance
- Determined turbine suitability by evaluating site conditions and loads analysis
- Reviewed mechanical completion documentation.

Garrad Hassan *San Diego, CA / Portland, OR | 2006-2008*
Northwest Regional Manager, Energy and Development Services

- Managed wind resource assessments in the Pacific Northwest
- Reviewed analysis methodology and develop new strategies for improved analysis
- Developed research topics related to wind resource analysis
- Managed project delivery schedule
- Reviewed technical reports
- Managed data analysis and met data management services
- Provided consulting services for wind farm development

Garrad Hassan *San Diego, CA| 2004-2006*
Wind Energy Analyst, Energy and Development Services

- Performed wind resource assessments
- Sited wind field modeling and analyses including layout design and optimization
- Meteorological campaign siting and design and turbine micrositing
- Assessed and analyze site environmental conditions for turbine suitability
- Data analysis and management services
- Consulting services for wind farm development
- Uncertainty and loss factor analysis

University of California Davis - Dr. B. White, *Davis, CA I 2003-2004*
Wind Tunnel Technician/Consultant

- Conducted low speed wind tunnel gas dispersion and pedestrian wind tests
- Operated and maintain wind tunnel
- Built scale models for testing
- Reduced data to readable user specified format
- Analyzed results and devise solutions for possible mitigation of problem sites

U.S. Navy *Oak Harbor, WA* I *1998-1999*

Corrosion Technician/Supervisor

- Supervised and inspected maintenance activities for a crew of six
- Coordinated shop maintenance
- Inspected and repaired corrosion damage
- Performed full phase inspections on aircraft
- Applied paint schemes to aircraft (polyurethane, epoxy)
- Ensured shop compliance to OSHA/EPA regulations

COMPUTER SKILLS WindFarmer, WAsP, Microsoft Word, Microsoft Excel, Fortran, Unix, Matlab, C, Solidworks, Microsoft PowerPoint

RESEARCH & DESIGN WORK Preliminary Design of 10 kW Wind Turbine Using Turbomachinery First Principles
Design of hydrogen fuel conversion system powered by renewable resources
Design of self-contained fuel cell power source for unmanned underwater vehicle
Research of a light harvesting polymer's applicability to photovoltaic cells

LAB EXPERIENCE & EQUIPMENT Wind tunnel maintenance and operation, lathe and mill, scroll saw, band saw, wind tunnel operation, gas dispersion testing equipment, rivet guns, sanders, grinders, hydraulic test equipment (HAC-10), hose burst bench, actuator test bench, tensiometer, multimeter, metal shapers, heavy duty metal sheet shears, metal turning equipment [University, U.S. Navy]

PRESENTATION AWEA WindPower Conference 2004 poster presentation "Wind Field Forecasting in Complex Terrain for Siting and Power Output Prediction" Denver, CO

LICENSES (not current) Auxiliary Power Unit, Man-Lift, Light-Duty Tow Tractor [U. S. Navy]

RELATED COURSEWORK Aerodynamics in Nature, Computational Fluid Dynamics, Turbomachinery, Numerical Optimization, Atmospheric Numerical Modeling, Fluid Dynamics (Intro and Advanced), Heat Transfer, Thermodynamics, Advanced Energy Conversion, System Dynamics (I and II), Mechanics of Materials, Fuel Cell Design, Energy Design, Design for Environment, Matrix Algebra, Fourier Series, Statics, Technical Communications, Material Science