

# DENNIS M. O'DONNELL, JR.

---

**METEOROLOGIST & SYSTEM ANALYST:** Blends academic training with real-world experience gained from working with leading-edge meteorological equipment and technology. Interfaces effectively with clients and decision markers to provide forecasts, warnings, and analytical reports based on weather patterns and potentially adverse conditions.

## PROFESSIONAL OVERVIEW

AVMET APPLICATIONS INC

2013

### Systems Analyst

- Provide direct support to FAA System Operations
- Participate in Collaborative Decision Making (CDM) Weather Evaluation Team (WET) meetings as a subject matter expert.
- Evaluate the accuracy of the Automated Winter Weather Dashboard (AWWD) as a tool for alerting airport planners to adverse condition during winter weather events.
- Attend daily operational briefings on the control floor at the FAA's Air Traffic Control System Command Center (ATCSCC)
- Conduct research and analyze Air Traffic Management (ATM) actions, decisions, and the impacts of weather and weather forecasts on the NAS.

FIRST SOLAR ELECTRIC

2010-2012

### Energy Planning Engineer

- Advised engineers on climactic conditions at project sites around the world; frequently traveled on-site to maintain weather towers and equipment.
- Analyzed large data set collected at multiple utility scale solar PV sites, ranging between 5MW and 80MW.
- Worked closely with instrumentation engineers on placement of sensors in large PV power plants.
- Developed new meteorological station mast for use in FS plants.
- Used MAT LAB, PVSyst, and MS SQL during work.

WEATHER TRENDS INTERNATIONAL

2006-2010

### Senior Systems Meteorologist

- Monitored weather conditions across the globe and provide alerts to clients on changing weather conditions; clients included retail, investors, and snow removal companies.
- Evaluated long-range weather forecasts that extended out from ten days to one year; reported information to a number of clients in fields that ranged retail to financial investments.
- Created tools to increase productivity and automate repeated tasks; lowered time needed for analysis 75% as a result which enabled lower employee headcount and cost savings.
- Developed a web-based tool used to perform regression analysis of retail sales to multiple weather variables.
- Automated .pdf report generation, allowing clients the option to create any volume of reports they needed.
- Crafted and published meteorological maps using GIS; coded in perl, PHP, MySQL, HTML, and FORTRAN.

UNIVERSITY OF WYOMING

2005

### Graduate Research Assistant – RICO Field Campaign

- Strategized and executed the King Air flight plan during student flight operations.
- Flew in and operated instruments in the Wyoming King Air and NCAR C-130 research aircraft.

MILLERSVILLE UNIVERSITY

2004

### Lead Student Researcher

- Headed a group of students that were participating in a study funded by MANE-VU; oversaw scheduling and training on multiple instruments used in the project.

- Made wind, precipitation, cloud base height, and pollution forecasts to determine which days were acceptable for the goals of the assignment.

## EDUCATION & CREDENTIALS

**BS, Meteorology** – MILLERSVILLE UNIVERSITY

**MS (Incomplete), Atmospheric Science** – UNIVERSITY OF WYOMING

*Researched cumulus cloud development in the Caribbean*

*Graduate Student Representative for the University of Wyoming Engineering Fund for Enrichment (UWEFE)*

**Member of the American Meteorological Society (AMS)**

*Vice President of the SE Wyoming Chapter ~ Serves on the AMS sub-committee on renewable energy*