Andrew S. Desrosiers

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Education:

Plymouth State University, Plymouth, NH
Major: BS, Meteorology, May 2011, **GPA**: 3.00
BS, Mathematics, May 2012, **GPA**: 3.17

Work Experience:

- ***Owner of WxExtreme.net*** (January 2013-present)
  - Created a weather forecasting website using html, ftp, query, php, java, and Perl
  - Work in Linux environment to run the WRF model and GEMPAK as a tool to provide accurate forecasts
  - Created a detailed four day forecast for Clinton, CT and Hartford, CT including precipitation totals maps and a technical current weather discussion
  - Conduct case studies on current weather events to provide further incite for future forecasts.

- ***Accounting Clerk*** (June 2013-present)
  Whelen Engineering Chester, CT
  - Responsible for accounts payable in two states (Connecticut and New Hampshire) and maintaining Whelen Engineering's General Ledger accounts.
    - Proficient in entering invoices and keeping an accurate tape
  - Responsible for accounts receivable.
    - Communicate with customers and venders to resolve financial issues.
    - Release product to customers based on their company's credit profile.
    - Responsible for sending final notices and sending accounts to collections and working with collections to resolve problem accounts.
  - Responsible for implementing a paperless environment which involves computer filing and indexing of confidential financial paperwork and credit applications
  - Responsible for inventory of key assets and product
  - Proficient in invoicing and purchase orders

- ***Surface Mount Technology Machine Operator/ Electronic Test*** (June 2010-June 2013)
  Whelen Engineering Chester, CT
  - Efficiently operate a machine assembly line.
  - Troubleshoot problems CAD programming issues.
  - Build Aviation products to FAA regulations.
  - Test aviation products accurately with Multimeter to FAA regulations.
  - Work within ISO 9000 regulations while operating a surface mount technology machine and quality assurance in Electronic test.
  - Ability to read an electronic parts print and circuitry schematic
  - Debugged test programs using C++ programming to test circuitry boards
  - Developed an understanding to recognize and repair faulty electronic components
  - Recognized for my work ethic and awarded a $1,000 scholarship

- ***Plymouth State University Mathematics Tutor*** (February 2011-2012)
  Plymouth State University Plymouth, NH
    - Tutored: Calculus (I, II, III), Differential Equations, Finite Math, Statistics (I, II), Probability and Statistic, Algebra, Geometry, any math-related problems.

- ***Judd Greg Meteorology Institute Student Worker*** (Fall 2009- Spring 2010)
  Plymouth State University Plymouth, NH
    - Maintained meteorology department's computers, and weather equipment
    - Created Data Sets for clients utilizing the National Climate Data Center
    - Proficient in the use of GNU Plot, and Integrated Data Viewer efficiently
    - Trained on the use of K1P1 communications and maintain K1P1(Plymouth's ASOS Station)

- ***Informational Technician*** (Spring 2004-Fall 2009)
  The Morgan School Clinton, CT
    - Maintained and installed computer equipment (laptops, PC, smart-boards, wireless access points, and servers)
    - Created a media server and print server for the Clinton Public School District to control internet web browsing and content filtering.
    - Installed a mail server for the Clinton Public School District which also serviced Town Official Offices for the Town of Clinton and Police Department.
    - Troubleshooting computers and technical equipment problems for the Town of Clinton, Connecticut.
    - Created a yearly technology infrastructure inventory of essential assets for the Town of Clinton using shared excel documents and macros and setting up a bar code system to identify computer components on the town's grid.
    - Worked within a DHCP and Static IP environment.
    - Gained the ability to utilize google.com and computer forums for any computer related issue.
    - Have knowledge of networking and creating Ethernet wire and punch downs.
    - Have experience in using a Fox Finder to locate network paths throughout the town's network infrastructure.
    - Set up a weather Meso-net for the Town of Clinton (Fire and Police Departments)

- ***ITS Student Worker*** (Fall 2007- Spring 2008)
  Plymouth State University Plymouth, NH
    - Resolved computer-related issues involving software and physical equipment.
    - Answered phone calls to resolve computer related issues throughout the Campus' computer infrastructure as well as student computer issues.
    - Became a resident technician to fix computer related issues in the class rooms as well as student dormitories.

Technical Skills:

- Ability to read an electronic CAD schematic/ print for Aviation products, and ability to debug and fix electronic product using Multimeter probes.
- Proficient with the following meteorological packages: IDV, GRLevel (3, 2, 2 Analyst), Bufkit, Metwise, Fx-Net, GEMPAK, Hurrevac 2010, WRF
- Created and own a personal weather forecasting website

- Experienced with plotting Skew-T log P diagrams and Isoplething Maps by hand
- Proficient with METAR and Rawinsonde Coding and Decoding
- Familiar with the following Operating Systems: Windows XP, Windows Vista, Windows 7, Ubuntu, Linux, Max OS, and MAC OS X
- Microsoft Office: Word, Excel, Power Point, Outlook, Access
- Experienced programming with Batch, PERL, HTML, R, and FORTRAN
- Familiar with GNU Plot, Mini-Tab, Mathematica, and Mat Lab
- Proficient with Adobe Flash, Photoshop 2, Dreamweaver

Undergraduate Research:

- **Synoptic Set-up for Icing events on Mt. Washington (2011)**
  - Identified thicknesses that correlated with icing events on Mt. Washington.
  - Created a Perl program that established a relationship between various thicknesses and icing events for an 8-year study period.

- **A Small-Scale Risk Model (2012)**
  - Studied Wind effects on one story structure to assess pressure loads on various parts of a modeled one story house using published civil engineering papers.
  - Created a risked based model in the R statistics package to simulate hurricane wind damage to the one story home with variable wind speed input options.
  - Presented findings at Plymouth State University's 2nd annual Research Symposium (2012), and Plymouth State's Meteorology Department (2012).

Professional Affiliates and achievement:

- American Meteorological Society- Plymouth State University Chapter. President (2010-2011), Co-President (2009-2010), Freshman and Sophomore Representative (2007-2009).
- American Mathematics Society Member (2011-2012)
- American Meteorological Society Member (2012-present)
- Boy Scouts of America – **Eagle Scout**