

Matthew D. Wyant

me@mattwyant.com

- Objective** Employment in the field of electrical engineering with opportunities for continued education and problem solving, especially in the domains of embedded hardware, wireless communication, and power generation.
- Education** **Bachelors of Science in Electrical Engineering,**
Northern Arizona University, Flagstaff, AZ May 2011
- GPA 3.93 in major, 3.77 overall
 - Expected to graduate *cum laude*
 - Member, Tau Beta Pi Engineering Honors Society
 - Courses in team-based design, digital signal processing, electromagnetics, power electronics, wireless communications, VHDL, digital and analog circuits, and embedded control
 - Major design projects include a human-powered AC generator, a metamaterial-based electrically-small antenna system, a VHDL microcontroller implemented on a FPGA, and a 2-axis solar tracking system
- Experience** **Undergraduate Researcher,**
NAU Wireless Networks Laboratory, Flagstaff, AZ 2009–Present
- Designed embedded research systems for environmental measurement from design through schematic, layout, manufacturing, population, programming, and deployment
 - Wrote embedded C code for new hardware as well as upgrades to existing code
 - Designed automated experiments to test hardware and software changes and analyzed the resulting data
 - Wrote desktop C code for data processing and analysis
 - Automated the build process to decrease downtime by 80 percent
- Skilled Trades Assistant,**
NAU Lockshop, Flagstaff, AZ 2007–Present
- Modernized the key plan and recoding system
 - Installed, repaired, and serviced over 2,000,000 physical and electronic locks on campus
 - Designed and documented procedures at all levels for new electronic access system
 - Revised and streamlined the key tracking systems for increased security and convenience

Director of Technology,

Data Doctors Franchise Systems, Tempe, AZ

2001–2007

- Worked through the levels of employment from Customer Service Associate to Director of Technology
- Supported more than 25 franchisees and their employees in more than 50 locations across the nation
- Created and documented company policy and procedures for technical aspects of the business
- Trained corporate staff, franchisees, and employees both in-person and remotely on new policies and procedures
- Mentored a group of franchisees on all aspects of their business and acted as a liaison between them and other departments of the company
- Interviewed, hired, and managed a team in charge of the corporate Extranet (web-based company management software)

**Activities
& Honors**

- Tau Beta Pi Honors Society
- Senior Advisor, NAU IEEE Student Chapter, 2010–11 academic year
- Chair, NAU IEEE Student Chapter, 2009–10 academic year
- Active IEEE Student Member: Communications and Antennas & Propagation Society
- Supplemental Instructor (tutor) and Teaching Assistant for first- and second-year circuit, intermediate programming, and microprocessor courses
- Member of the Coconino County ARES team to assist local public services with emergency response and communication
- General class amateur radio license
- Dean's List of Distinguished Students, all academic years
- Gabaldon dormitory hall council, 2007–08 academic year

**Technical
Skills**

- Analog and digital systems design
- Schematic capture
- VLSI and PCB layout
- Circuit simulation
- Embedded, desktop and web programming
- Technical writing and layout
- Licensed General Class HAM Operator

**Software
& Languages**

Altera Quartus, AutoCAD, C, C++, CVS, DipTrace, EAGLE, Excel, \LaTeX MATLAB, Mentor Graphics Design Architect, Mercurial, Multisim, Power Point, PSpice, R, SolidWorks, Subversion, SQL, VHDL, Visio, Word