

NAU Campus Address:
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CRYSTAL DIAZ

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- OBJECTIVE** A full-time position in energy, manufacturing, or defense involving systems engineering and utilizing mathematical modeling for problem solving, optimization, and effective decision making
- EDUCATION** **Cornell University**, Ithaca, New York
Expected graduation May 2009, Master of Engineering in Operations Research & Information Engineering
Northern Arizona University, Flagstaff, Arizona Cumulative GPA 3.86/4.0
Graduated Magna Cum Laude May 2008 with a Bachelor of Science in Mathematics, Minor in Business
- EXPERIENCE** **Cornell Master of Engineering Design Project**, Ithaca, New York
Team meeting and communication coordinator (Spring 2009)
Project involves extensive analysis of call data and spreadsheet modeling to find volume and staffing trends and make coverage predictions in support of volunteer ambulance agencies in the Rochester area
Raytheon Missile Systems, Tucson, Arizona Secret Security Clearance
Technical Student Intern (Summers 2005, 2006, 2007, 2008)
Performed MALD NINJA flight test support and documentation, initiated a new telemetry data analysis handbook and depot maintenance parts exchange manual for Tomahawk Block IV
In the Operations Research department, performed missile fly-out simulation data analysis, aided in redesign of simulation events structure using C++, updated documentation
In Cost Engineering center, learned parametric modeling, cost analysis techniques, and Six Sigma methods
Multicultural Engineering Program, Flagstaff, Arizona
Student Worker/Tutor (October 2004 – April 2005, Spring 2007)
Advertising, database entry, NAU recruitment, and compilation of student resource information
Tutoring students on understanding course material and building skills for success in math classes
- AWARDS** Cornell ORIE Fellowship • NAU Gold Axe Award • NAU Outstanding Senior in Mathematics Award • Dean's List • Karan and Terence Hall Scholarship • Charles E. Little Math Education Scholarship
- LEADERSHIP** **M.Eng. Student Leadership Committee**
Mathematical Contest in Modeling participant, February 2008, Honorable Mention
Putnam Exam participant, National math competition for undergraduates, 2007, 11/120, median 2/120
NAU Math Club, American Mathematics Association
Positions Held: Secretary, Treasurer, Vice President; Contributed in fund raising and awareness events
Hispanic Honor Society Participated in community service and outreach events
Conferences
Nebraska Conference for Women in Mathematics, February 2008, student speaker
Southwest Undergraduate Mathematics Research Conference, March 2008, featured student speaker
Phi Kappa Phi member Initiated in Spring 2007
INROADS participant
Attended INROADS Talent Pool Training Conference to enhance career development
NAU LEADS program participant
Attended classes on time management, self-actualization, leadership and teamwork, and communication
- SKILLS** **Computer Skills**
Proficient in Windows 98/2000/XP/Vista, UNIX, Microsoft Office, MS VISIO, optimization and modeling programs, MATLAB 7, Mathematica; VBA, limited C++ and Java
Languages
Intermediate Spanish
- COURSES** Information Technology • Spreadsheet Modeling • Simulation & Modeling • Game Theory • Optimization • Mathematical Modeling • Math of Finance Modeling • Math Statistics I/II • Differential Equations • Linear Algebra I • Intro to Computer Science • Macro/Micro Econ. • Intro to Management