

Alexandru L. Boje

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1062 Heather Cir., Las Cruces, NM 88005

Objective:

Seeking an internship/co-op in the field of chemical engineering that will give me the opportunity to apply my knowledge to real world situations.

Education:

New Mexico State University (NMSU), Las Cruces, NM GPA: 3.65/4.00

Major: B.S. **Chemical Engineering**

Minors: Chemistry, Biochemistry, and Mathematics

Expected Graduation with Honors: May 7, 2011

Texas A&M University (TAMU), College Station, TX

Non-Degree Seeking, Summer 2009

Experience:

Research Assistant (part-time) 8/19/2008 to Present

Serrano Neurolab, Biology Dept., NMSU, Las Cruces, NM

RISE to the Doctorate Program (NIH Grant R25GM061222)

Collaborators: CINT at LANL and CDP at MIT

- Reconstructed digital 3D models of the African clawed frog (*Xenopus laevis*) from optical coherence tomography (OCT) scans.
- Practiced tissue culture on amphibian kidney (A6) and chinese hamster ovary (CHO) cell lines under Biosafety Level II (BSL-2) sterile conditions.
- Expanded tissue culture protocols for A6 cells.
- Attended weekly technical writing and professional development workshops.

Research Assistant (full-time) 6/1/2009 to 8/7/2009

Chemical Engineering Dept., TAMU, College Station, TX

Research Experience for Undergraduates (NSF Grant 0552655)

- Optimizing the design of nanothermometers used for cancer treatment.

Web Designer (freelance) 10/3/2008 to 4/30/2009

Engineers Council, NMSU, Las Cruces, NM

- Developed and updated <<http://www.nmsu.edu/~ecouncil/>>.

Research Assistant (full-time) 5/27/2008 to 7/7/2008

Plant and Environmental Sciences Dept., NMSU, Las Cruces, NM

RISE Medicinal Plants Summer Workshop (NIH Grant R25GM061222)

- Researched the anticancer properties of the silverleaf nightshade (*Solanum elaeagnifolium*) in a team of three through the use of chromatography-spectrometry analysis and yeast-based bioassays.

Web Designer and Teaching Assistant (part-time) 5/29/2007 to 5/9/2008

Engineering Technology Dept., NMSU, Las Cruces, NM

- Restyled website layout, wrote text content, improved photos, and created XHTML compliant code for <<http://che.nmsu.edu>> and <<http://et.nmsu.edu/>>.
- Graded JAVA assignments and managed online grade databases.

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Qualifications:

Languages: Italian (fluent), Spanish (conversational), and Romanian (conversational).

Software: Microsoft Office, Aspen, Matlab, Mathcad, Amira, Photoshop, Fireworks, Dreamweaver, CSS, XHTML, Total Commander, JAVA, and Visual Basic.

Platforms: Windows XP and Vista, DOS, Mac OS X, and Linux.

Safety Courses: Hazardous Communications, HazWaste Management, BioSafety, Bloodborne Pathogens, Lab Standards, Fire Extinguishers, Animal Worker, and Radiation Safety.

Skills: Technical Writing, Oral Presentation, Leadership, and Teamwork.

Publications:

“3D Reconstruction of *Xenopus laevis* Organs from Optical Coherence Tomography Scans.”
Alexandru Boje, Lina Urquidi, Elba Serrano. Poster: 4/17/2009.

“Analysis of Solasodine Extracted from *Solanum elaeagnofolium* as an Anticancer Compound.”
Alexandru Boje, Jessica Fitzgerald, Jessica Perez. Poster: 7/3/2008.

Conferences:

Oral Presentation Judge	4/23/2009
Graduate Research & Arts Symposium, Las Cruces, NM	
Poster Presenter	4/17/2009
Undergraduate Research and Creative Arts Symposium, Las Cruces, NM	
Poster Presentation Judge	10/3/2008
Alliance for Minority Participation Research Conference, Las Cruces, NM	
Poster Presenter	7/3/2008
Chemistry of Solanaceae Poster Session, Las Cruces, NM	
Guest Speaker	4/21/2008
Lt. Governor’s Summit on Financial Education, Albuquerque, NM	

Community Service:

- Bridge Construction in Mexico – Engineering Without Borders 3/21/2009 to 3/27/2009
- Organic Chemistry Tutor – NMSU 2/22/2009
- National Scholars Tour Guide – NMSU 11/21/2008
- Calculus Tutor – NMSU 10/2/2008
- Science Demonstrations – White Sands Middle School 11/18/2008
- Pepsi Vendor – Big Brothers Big Sisters 11/3/2007
- Food Bank Distributor – Salvation Army 10/16/2004 to 3/19/2005
- Sound Technician – Salvation Army 8/1/2004 to 10/23/2005

Honors:

- Dean's Honor List – NMSU College of Engineering
- Crimson Scholar – NMSU Honors College
- RISE to the Doctorate Scholar – NMSU Biology Department
- 1st Place Statewide – Stock Market Game Essay Contest
- 1st Place – Allen County Public Library Poetry Contest
- 1st Place – NAVSEA Study in Acquisition Engineering Challenge

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Awards:

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| • Leadership Scholarship – NMSU Honors College | \$7,000/yr. |
| • Crimson Academic Scholarship (superseded) – NMSU Honors College | \$5,500/yr. |
| • Lottery Scholarship (superseded) – New Mexico Lottery | \$5,000/yr. |
| • Presidential Scholarship (declined) – University of New Mexico | \$6,600/yr. |
| • Engineering Achievement Scholarship – NMSU College of Engineering | \$2,000 |
| • George Ladd Scholarship (superseded) – NMSU | \$1,000 |

Affiliations:

- Member and Webmaster of the American Institute of Chemical Engineers
- Member of Engineering Without Borders
- Member of Servas International Travel
- Member of Couch Surfing

Activities:

- Photography
- Hiking
- Traveling
- Archery
- Cooking
- Landscaping
- Watching movies
- Automotive work
- Construction work
- Stock trading
- Investing
- Legal advising
- Property management
- Online networking

References, transcripts, and letters of recommendation are available upon request.