

## Antonio R Arredondo

### PRESENT ADDRESS

1430 S Telshor Blvd  
Apt A5  
Las Cruces, NM 88011  
(408) 750-4233

### PERMANENT ADDRESS

3500 Telegraph Dr.  
San Jose, CA 95132  
(408) 258-6784

### JOB OBJECTIVE

To obtain a full-time employment position.

### EDUCATION

New Mexico State University, Las Cruces, NM  
PhD Candidate in Computer Science, Expected May 2011  
Topic: Wireless Sensor Network Programming and Automated System Interaction  
G.P.A. 3.8/4.0

New Mexico State University, Las Cruces, NM  
Masters of Science in Computer Science, May 2009  
Thesis: Parallel Protein Folding by Minimum Energy State Equation  
G.P.A. 3.8/4.0

San Jose State University, San Jose, CA  
Bachelor of Science, December 2004  
Concentration in Computer Science  
G.P.A. 3.3/4.0

### EXPERIENCE

|                   |                                               |                    |
|-------------------|-----------------------------------------------|--------------------|
| <b>Instructor</b> | New Mexico State University<br>Las Cruces, NM | Aug 2009 - Current |
|-------------------|-----------------------------------------------|--------------------|

Introduction to C programming class for college freshman.

- Developed course material which included lectures, exams, and labs.

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|---------------------------|-----------------------------------------------|---------------------|
| <b>Teaching Assistant</b> | New Mexico State University<br>Las Cruces, NM | Aug 2004 - May 2009 |
|---------------------------|-----------------------------------------------|---------------------|

Teaching assistant for undergraduate and graduate Computer Science classes.

- Teaching, grading labs and homework, and assisted in labs.

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|--------------------------|----------------------------------------|---------------------|
| <b>Summer Internship</b> | Sun Microsystems Inc.<br>Palo Alto, CA | May 2008 - Aug 2008 |
|--------------------------|----------------------------------------|---------------------|

Developed a Web 2.0 interface for a collaborative 3D virtual world called Project Wonderland.

- Designed and developed the backend infrastructure to communicate with the virtual environment.
- Designed and developed the frontend interface as a Web 2.0 application.

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|-----------------------------|-----------------------------------------------|---------------------|
| <b>Pathways Coordinator</b> | New Mexico State University<br>Las Cruces, NM | Jan 2006 - May 2008 |
|-----------------------------|-----------------------------------------------|---------------------|

Coordinator for grant based project to guide undergraduates in the Freshman and Sophomore Computer Science classes.

- Supervised two undergraduates students, scheduled tutoring sessions and tracked student performance.
- Created and maintained project website that provided students with access to online guides and tutorials.

**CS Summer Camp Instructor**      New Mexico State University      Summer 05-07, 09-10  
Las Cruces, NM

Instructed High School and Community College students in Web development and design.

- Discussed design techniques and proper webpage layout.
- Instructed students in, (X)HTML, PHP, JavaScript, CSS, Multimedia pages and use of MS Frontpage.

**Software Engineer**      SiRF Technology Inc.      June 1998 - July 2004  
San Jose, CA

SiRF Technology - A developer of consumer location information for use in various mobile locations.

- Created and maintained custom written software for processing, analyzing, and reporting collected data.
- Performed quality assurance testing of embedded software for GPS receivers in accordance with ISO9001.

### **Projects**

- Generated analysis reports using XML files and extracted the results to web pages via a C/C++ GUI.
- Assisted in the development for automation of data collection using WinBatch scripting language.
- Created a test report database for archived information using PHP and MySQL.

## **COMPUTER SKILLS**

Extensive hardware and software knowledge of personal computers, and Beowulf Clusters.

Programming knowledge of Python, Perl, XML, XSL, thread programming, NetBeans, SunStudio, and MySQL.

Proficient programming skills in C/C++, MPI, OpenMP, Java, AJAX, PHP, JavaScript, HTML, CSS, and software version control systems.

Operating system knowledge with Microsoft Windows, Mac OS, FreeBSD, various Linux distributions, and Solaris.

Extensive experience with OpenOffice and Microsoft Office.

## **HONORS AND AWARDS**

Alpha Chi Member since 2008

GAANN (Graduate Assistance in the Areas of National Need) Doctoral Fellowship supported by US Department of Education 2004-2007

NMSU Graduate School Assistantship Award 2006-2007

NM-AGEP (New Mexico Alliance for Graduate Education and the Professoriate) fellow supported by the National Science Foundation 2004-2005

Fall 2004 Outstanding Teaching Assistant Award in Computer Science Department

## **MEMBERSHIPS**

Computer Science Graduate Student Organization: Vice-President 2007-2010, President 2005-2007, Event Coordinator 2004-2005

Association for Computing Machinery Member 2005-2006

## **COMMUNITY SERVICE**

Toys For Tots - Provided computer support and technical advice 2007

**MISCELLANEOUS**

Native English

Spanish - proficient speaking, moderate reading and writing

French - fair speaking, reading, and writing

**REFERENCES**

Available upon request.