Angela Beasley

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EDUCATION

M.S. in Computer Science, The George Washington University, June 2007, Concentration in Machine Learning
B.S. in Computer Science, The University of Texas at Austin, December 2003

PROFESSIONAL EXPERIENCE

Engineering Scientist, Applied Research Labs at The University of Texas at Austin, Aug 2010 – Aug 2018
Design and develop user interfaces for Navy submarine, surface ship, and surveillance sonar systems, that enable visualization of complex, multi-dimensional data.

Software Engineer, Lockheed Martin, Arlington, VA, March 2004 – July 2010
Designed and developed applications for submarine sonar systems, submarine periscope systems, unmanned underwater vehicles, surface ship communications systems, hand-held command and control devices, first-responder situational awareness systems, and radio communications modeling and planning tools.

TEACHING EXPERIENCE

Lecturer, The University of Texas at Austin, September 2017 – present
Data Mining / Data Analytics
Elements of Computers and Programming

Private Tutor, January 2015 – December 2015
Computer science, university-level programming, Linux operating system, shell scripting

Adjunct Professor, Austin Community College, January 2012 – May 2012
Introduction to SQL

Adjunct Professor, Northern Virginia Community College, August 2009 – May 2010
Introduction to Computing (Introductory programming in Java)

Instructor, Mad Science, January 2008 – December 2008
Science education, grades K-5

Undergraduate Teaching Assistant, The University of Texas at Austin, Aug 2003 – Dec 2003
Weekly office hours and exam review sessions for Elements of Computing course

PUBLICATIONS AND PRESENTATIONS

"Mid-Frequency Towed Array Droop Curve Study" (with Russell Brandt). Presentation prepared for the Sonar Performance Prediction Functional Segment, 2012

"Collaboration Through a Virtual World" (with Rouba Alkadi). Presented at the annual Lockheed Martin Innovation Conference, 2009

"Writing Image Processing Algorithms for FPGAs Using Electronic Systems Level Tools" (with Annette Williams). Presentation prepared for Lockheed Martin, 2006

"Modeling a set of coupled ordinary differential equations using Genetic Programming in C++." Paper and presentation prepared for the Undergraduate Student Research Program at NASA Wallops Flight Facility, 2003

AWARDS AND HONORS

Honored, Lockheed Martin, 2010, for outstanding performance and lasting contributions
Special Recognition Award, Lockheed Martin, 2009, for exceptional technical performance
Special Recognition Award, Lockheed Martin, 2007, for meeting aggressive project deadlines
Spot Award, Lockheed Martin, 2007, for contribution to passing a DARPA Go/No-Go
Honored, Lockheed Martin, 2007, for community service activities

VOLUNTEER EXPERIENCE

Hour of Code, Perez Elementary School, Austin, TX
Kindergarten, 20 students, 1 year, once yearly, 2 hr
Instructed activity to introduce students to programming.

Introduce a Girl to Engineering Day, The University of Texas, Austin, TX
K-5th grade, 500 students, 1 year, once yearly, 6 hr
Instructed activity designed to excite girls about math, science, and engineering.

Science Exploration, Mantua-Haverford Community Center, Philadelphia, PA
K-8th grade, 12 students, 8 weeks, once weekly, 1hr
Created all content and instructed all lessons, including science experiments and science-related activities.

Robo Tech, LaSalle Academy, Philadelphia, PA
7th-8th grade, 12 students, 6 weeks, once weekly, 1.5hr
Used Lego Mindstorm robotics kits to teach principles of engineering and computer science.

Robotics Lab, Lockheed Martin, Cherry Hill, NJ
7th-8th grade, 45 students, 4 weeks, once weekly, 4hr
Used Lego Mindstorm robotics kits to teach principles of engineering and computer science.

Space Shuttle Simulation, Dominion Trail Elementary School, Ashburn, VA
5th grade, 20 students, 7 weeks, once weekly, 1.5hr
Created all content and instructed all lessons, including space-related activities and shuttle simulation.

Tutor, Private Residence, Manassas, VA
10th grade, 1 student, 4 weeks, once weekly, 1hr
Basic understanding, homework help, and test preparation in Geometry.

Mentor, Dogwood Elementary School, Reston, VA
5th grade, 1 student, 4 weeks, once weekly, 1hr
Lunch-time meetings to converse or read.

Girls Excelling in Math and Science (GEMS), Dogwood Elementary School, Reston, VA
5th grade, 60 students, 4 years, once yearly, 5hr
Instructed workshops designed to excite girls about math, science, and engineering.

Engineers Week, Local middle schools, Northern VA
6th-8th grade, 20 students, 3 years, once yearly, 3hr
Instruct activities designed to introduce students to engineering.

Space Day, Local middle schools, Northern VA
6th-8th grade, 20 students, 2 years, once yearly, 2hr
Instruct activities designed to excite students about math, science, and engineering.

Women In Engineering Day, Lockheed Martin, Manassas, VA
10th grade, 100 students, 1 year, once yearly, 4hr
Led demo and instructed activity designed to introduce girls to engineering.

Girl Scouts Science Badge, University of Virginia, Charlottesville, VA
4th grade, 40 students, once, 2hr
Discussed importance of science and participated in science activities.

Mathcounts, Udvar-Hazy National Air and Space Museum, Chantilly, VA
6th-8th grade, 250 students, once, 3hr
Celebrated student achievements at a national math competition.

Texas Interdisciplinary Plan, The University of Texas, Austin, TX
College freshmen, 5 students, 1 year, twice weekly, 1hr
Tutored and mentored computer science students.

MEMBERSHIPS

Women In Technology
Women In Defense
Association for Women in Computing (President of the University of Texas student chapter, 2003)

REFERENCES