

Rose Espinoza

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Education

University of California, San Diego

La Jolla, CA

Bachelor of Science in **NanoEngineering**
Emphasis: Material Science
Upper Division GPA: 3.000

Relevant Coursework:

- Materials Science and Engineering
- Mechanics of Nanomaterials
- Material Selection in Engineering
- Thermodynamics of Materials
- MATLAB
- Digital and Analog Design
- Chemistry + Laboratory

Work Experience

Intern – Actinix

Scotts Valley, CA 7/14-9/14

- Learned to use Shack- Hartmann Software to detect aberrations of red blood cells and polyethylene beads when distinguishing between single and double cells/beads
- Prepared blood smear slide samples to analyze and view in a microscope
- Collaborated with another team member to analyze trends in data and look for abnormalities to determine ways to improve project
- Tested different experimental setups with microscope and Shack Hartmann in order to obtain optimal results for both red blood cells and polyethylene beads

Skills and Qualifications

Laboratory

- Developed correct lab work habits by keeping a clean environment while performing experiments
- Ability to follow detailed operating procedures and protocols with minimum supervision
- Hands-on experience working with electrical circuits and light microscope
- Characterization of nanobeads through dynamic light scattering
- Experience taking images through dark and bright field microscopy at different magnifications

Computer/Software

- MATLAB
- Granta CES EduPack for material selection
- Experience using Thorlabs Shack Hartmann Wavefront Sensor Software
- Advance knowledge of Microsoft Office Suite: Word, PowerPoint, Excel
- Platforms: Windows and Mac OS
- 60-70 WPM

Communications

- Skilled in building excellent rapport with team members
- Fluently speak, read and write Spanish
- Ability to write technical reports that are structured and error free
- Work in a timely manner and meet deadlines

Design Tools

- Familiar with: function generator, oscilloscope, digital multimeter

Extracurricular

Triton Junkyard Derby Competition

La Jolla, CA 2012-2013

- Worked in a team to construct a derby car in two days, made from junk that met safety rules
- Obtained second place in competition