

Lea Rodriguez

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Education

North Seattle Community College, Seattle, WA

Associate of Applied Science, Nanotechnology, expected June 2013

Relevant Coursework: Nano Characterization, Nanofabrication, Materials Science

Central Washington University, Ellensburg, WA

Bachelor of Arts, Communication Studies, June 2010

Technical Skills

Instrumentation

Nanosurf AFM

Hummer VI Sputter Coater

VCA Optima Goniometer

Lucas Labs 4pt. Probe Stage

ChemSols Spincoater

Isotemp 281A Vacuum Oven

Olympus FV10i-LIV Laser Scanning

Confocal Microscope

Processes & Techniques

Cleanroom Safety and Protocol

Chemical Procedures and Safety (MSDS;
Hazards; Chemical Storage, etc.)

Basic Vacuum Techniques

Synthesis of Colloidal Nanoparticles

Photolithography

Deposition (thermal evaporator; sputter
coater)

Wet Etching

Atomic Force Microscopy (AFM)

Scanning Electron Microscopy (SEM) with
chemical analysis (EDAX)

Profilometry

Contact angle measurements

Technical Experience

Center for Nanotechnology at the University of Washington, Seattle, WA

January-June 2013

Intern

- Developed a new standard operating procedure for the center's Atomic Force Microscope (AFM)
- Performed routine maintenance for the AFM and two other center instruments
- Collaborated with lab manager to edit existing training material for the AFM

Nanotechnology Lab at North Seattle Community College, Seattle, WA

September-

December 2012

Independent Study Project

- Catalogued, photographed, and wrote descriptions for all twelve major lab instruments
- Published instrumentation information on lab website with monthly updates
- Wrote detailed maintenance plans for three instruments: AFM, Confocal, and 4 point probe

Additional Skills

Computer Software and Programs: Python, Lab View, Matlab, AutoCAD, Excel, Adobe Photoshop

Other: Fluent in Spanish