

Dakota Seal

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Objective

Motivated, hardworking individual seeking a position to utilize my skills in data analysis, mathematics, physics, and programming while developing and learning new skills and abilities.

Education

08/2014 – 05/2019 **Boise State University - Boise, ID**
Bachelor of Science in Physics (Applied emphasis)
Minor in Material Science and Applied Mathematics
Deans list with honors

Experience

- 11/2019 – Present **Manufacturing Technician - Dry Etch**, Micron - Boise, ID
- Assist Micron R&D teams by running silicon wafers and tests through proper fabrication process using knowledge of available tools and techniques.
 - Statistically Analyze data using multiple reports to identify and recognize fabrication trends, and use these trends to predict future processes that can be improved upon.
 - Find root cause solutions to area issues that are impacting overall fab performance and assist with resolution.
 - Contribute to continuous safety, quality, and improvement efforts.
 - Manage personal and assigned projects to better Dry Etch area quality.
 - Occasionally work in cleanroom or electro-static discharge sensitive environment.
- 07/2019 – 11/2019 **Water Resource Specialist I**, Idaho Power (Temporary position)
- Participate in Idaho Power's cloud seeding program to provide additional waterflow for hydroelectric projects.
 - Work in teams with other resource specialists to ensure proper installation and execution of cloud seeding towers as well as other scientific instruments.
 - Apply mechanical principles to manufacture needed resources and structures using shop equipment and mathematical skills.
 - Install basic computer systems to towers and troubleshoot or modify AC / DC circuitry.
 - Install and remove systems involving chemical solutions and gases. Monitor and regulate said systems to be at the correct pressures to ensure proper flow rates.
 - Prioritize cost saving in day to day operations by ensuring maximum efficiency for travel between cloud seeding sights.

- 10/2018 – 07/2019 **IT Client Services Intern**, Boise School District
- Diagnose and troubleshoot technical problems relating to computers, monitors, printers, projectors, and mobile devices.
 - Install and set up technical devices for clients paying attention to specific configuration requirements.
 - Utilize customer service and communication skills to communicate issues and resolutions with teachers and clients.
 - Determine replacement, repair, or re-imaging of old or broken devices to assist in cost saving strategies and utilize resources appropriately.
 - Collaborate with other IT specialists to troubleshoot and resolve technical problems and tasks
- 05/2018 – 10/2018 **Physics Lab Researcher and Technician**, Boise State University
- Research and process experiments using material science and applied physics knowledge.
 - Assist in the synthesis of tensile-strained quantum dots using molecular beam epitaxy technology.
 - Handle materials such as Indium, Arsenic, Aluminum, and Gallium using proper lab etiquette, protective equipment and safe handling methods.
 - Gather and analyze experimental data using imaging methods such as atomic force microscopy.
 - Derive and use mandatory physical equations to solve complex problems.
 - Present new findings in weekly meetings as well as report any essential data.
 - Aid in the setup, use, dismantling, and organization of lab equipment.

Skills

-Python	- \LaTeX	-Micron Central
-MATLAB	-Analog/Digital Electronics	-Microsoft Suite
-Data Collection/Analyzation	-Communication	-Toolview
-GeRM/GDM	-HTML5	-Teamwork

Hobbies and Interests

I enjoy spending a lot of my time out doors. During the summer I enjoy hiking, backpacking, golf, and frisbee, with one of my favorite spots to go backpacking being the Sawtooths. During the winter I like to ski (and sometimes snowboard) and often go to either Bogus, Tamarack, or Brundage. I also enjoy rock climbing/bouldering and frequent the climbing gym Asana year round. When I'm not outdoors I like to tinker with amateur science projects or DIY projects (I've helped build cloud chambers, homemade fireworks, electrical metal melters, and more), hang out with friends, or simply relax with a movie or TV show.