

Education

University of Utah Salt Lake City, UT

B.S. Chemical Engineering,
Expected Spring of 2021

Dixie State College St. George, UT

Associates of Science,
Spring 2012

GPA : 3.098

Skills

- **Laboratory**
Intermediate
 - Gas Chromatography and Mass Spectrometry
 - Titrations, solution preparation, equipment cleaning, maintenance, safety SOP creation, sample control, and experiment execution
- **Fabrication**
Intermediate
 - Steel welding and fabrication of load-bearing structures, device prototypes, agricultural tools and vehicle repairs
- **Programming**
Basic
 - HTML, CSS, Java, Python, R, MatLab, Papyrus, XML
- **Prototyping**
Basic
 - Design, proof of concept, manufacture, programming, and testing of devices, most notably of a crude submersible spectrophotometer
- **Wilderness Survival**
Basic
 - Eagle Scout

Anthony Greenwood

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Experience

Teaching Aide | Salt Lake Community College | Computers and Web Dev **08/18 – Current**

- Assist students and instructor in a computer lab classroom environment
- Lead class lab nights, including additional instruction and exam proctoring
- Work with refugee populations to overcome language barriers and other obstacles

Research Assistant | University of Utah | Dept. of Chemical Engineering **05/14 – 10/14**

- Planned experiments with Prof. Trujillo, then prepared, executed, and recorded results of lab experiments
- Concocted chemical solutions, and safely handled, stored, and disposed of hazardous chemical materials, organized inventory of laboratory chemical and other supplies
- Utilized, cleaned, and maintained scales, pumps, shake tables, filters, thermometers, sieves, packed bed columns, glassware, and other common lab equipment
- Operated a gas chromatograph to find the concentration of lead in solution from a set of prepared organized samples produced from experiments
- Employed digital microscopy to characterize small scale structure of our manufactured charcoal filter gel beads and polymer coatings
- Implemented and documented meticulous procedures such as isolating filter beads in epoxy and using a diamond tipped micro-saw to gain cross-section slices without destroying internal structure
- Refined procedures to produce uniform gel beads and polymer coatings including flow rates, concentrations, exposure times, and other variables
- Created and maintained logs, communications, safety, procedural, data, and presentation documents for use internally and externally

Lab Intern | Washington County Water Conservancy District **02/12 – 07/12**

- Characterized common properties of inlet and outlet streams of water daily using titrations, color spectrophotometry, pH meters, and turbidity testing
- Prepared samples with micro-liters of reagents for use in solid phase micro extraction (SPME) in a Gas Chromatograph Mass Spectrometer (GC/MS) to determine concentrations of Geosmin and other organic contaminants
- Researched, planned, and executed a study of the dual-media carbon-based filter system, involving filtrate penetration, optimization of flow rate, and separation gradients of media after backwash

*Note: Not a complete work history, included relevant and current experience only