

# Experienced Engineering

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Provo, Utah 84604

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## EDUCATION

**Bachelor of Science in Chemical Engineering**, Apr 2020  
Brigham Young University, Provo, Utah

**GPA: 3.38/4.00**

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## WORK EXPERIENCE

- Nuclear Engineer Intern** – *ABC Engineering, Los Alamos, NM* May 2019 – Present
- Decreased pumping cost by 30% for reactor cartridges by revolutionizing geometry in CFD
  - Coupled MCNP with CFD to investigate Molybdenum-99 production in a solution reactor
  - Reduced computation time for CFD model by 50% by strategically employing symmetry
- Molten Salt Reactor Research Assistant** – *Brigham Young University, Provo, UT* Aug 2017 – Present
- Explored and presented feasibility of different molten salt reactor designs to investing company
  - Developed experiment to determine density of molten salts (FLiBe, FLiNaK)
- Application Engineer Intern** – *DEF Engineering, Bellevue, WA* Jan 2018 – Dec 2018
- Cut cost by \$500,000 for sulfuric acid dilution skid by selecting individual compatible components
  - Conducted feasibility study for 15 MM gal/yr biomass-to-liquids plant in Yakima, WA
- Lead Technician** – *GHI Engineering, Issaquah, WA* June 2013 – Sept 2017
- Led teams of 3-5 to complete several \$10,000-20,000 renovation projects up to spec
  - Translated for company president to Spanish-speaking employees on a weekly basis
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## SKILLS

### Programming and software abilities:

STAR-CCM+ computational fluid dynamics  
Computational Chemistry Software (Gauss View)  
Microsoft Excel

Python  
SolidWorks CAD modeling  
Math CAD

**Fluent in Spanish** – highly proficient in speaking, reading, and writing

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## PUBLICATIONS, AWARDS AND HONORS

Los Alamos National Lab 2019 Poster Symposium – Engineering Poster	May 2019
Los Alamos National Lab SPOT Award – initiative and creativity in thermal fluid modeling	May 2019
Starter for BYU Men's Ultimate Frisbee team	Apr 2017 – July 2019
Chemical Engineering Department Leadership Scholarship	July 2018, July 2019
Boeing Employees Credit Union Foundation Scholarship	Aug 2017
BYU half-tuition academic scholarship	Aug 2016 – Apr 2020
Boy Scouts of America Eagle Scout Award	Mar 2011

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## VOLUNTEER SERVICE

American Nuclear Society: BYU Chapter Activities Coordinator  
Full-time representative for The Church of Jesus Christ of Latter-day Saints

Jan 2018 – Present  
June 2014 – June 2016