

ETHAN NELSON

(770) 689-7042 | einelson8i@gmail.com | [linkedin.com/in/ethan-nelson/](https://www.linkedin.com/in/ethan-nelson/) | einelson.github.io | Secret clearance

Professional Experience

Software Engineer

May 2021-Present

ARCTEC Solutions

Middleburg, VA

- Engineering automation of software installation tasks
- Designing and integrating interactive GUI/ UIX to control automated build process
- Modification of existing code to stream data more effectively than natively designed

Data Science Intern

Jan 2021-April 2021

Snow Data Science

Houston TX, Rexburg, ID

- Used data visualization to create results that are easily understandable
- Researched unsupervised machine learning algorithms pertaining to clustering and use of dimensionality reduction (PCA)
- Program worked with large systems to detect and pinpoint where faults were occurring

Data Reviewer, Annotator

Feb 2020-Jan 2021

Research & Business Development Center

Rexburg, ID

- Conducted research under a Machine Learning Engineer in order to increase working knowledge on machine learning algorithms specifically dealing with neural networks, semantic segmentation and point cloud classification.
- Built neural network with Point Net and TensorFlow to classify point cloud data to help achieve a fully automated warehouse.
- Correctly applied algorithms to classify point cloud data.
- Lead team that contributed to 80,000+ image data set to train machine learning algorithm in recognizing product details

Technical Experience

- | | | |
|----------------------|--------------------|-----------------------------------|
| • Python 2.7, 3 | • Computer vision | • 3D modeling (Autodesk Inventor) |
| • Machine Learning | • Networking | • C++ |
| • Data Visualization | • Microcontrollers | • Agile/ Scrum |
| • Tensorflow/ Keras | • Linux | • Debugging |

Education

Brigham Young University-Idaho

Sep 2021

BS. Science in Computer Science

Rexburg, ID

Other Relevant

Won nation-wide youth competition | enelson8

Sep 2013

- Used multiple technologies to create a creative home improvement project.
- Innovated, designed and built a system to toggle lights from bed.
- Use of 3-D printing, microcontrollers, soldering, plexiglass.

Amateur radio operator- K7INE