

Jacob M. Arnold
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Qualification Highlights

- Graduated high school at the age of 14 and began attending college as an engineering major the following fall semester.
- Graduate Weighted Grade Point Average of 4.00/4.00
- Undergraduate Weighted Grade Point Average of 3.89/4.00
- Is proficient in using ArcGIS, AutoCAD, AnyLogic, Microsoft Office, and Google Drive.

Education

- Clemson University, B.S. in Environmental Engineering and Science, 2016 to 2018.
- Anderson University, B.S. in Pre-Engineering, 2013 to 2016.
- Has completed the following graduate-level courses: Environmental Systems Analysis, Logistic Behavior Simulation Modeling, and Urban & Regional Economics for Planners
- Has completed the following undergraduate-level courses: Environmental Engineering Fundamentals (2 courses), Water and Wastewater Engineering with a Lab, Capstone Design Project, GIS in Geology, Statics, Dynamics, Fluid Mechanics, General Chemistry (2 courses), Organic Chemistry, Calculus (4 courses), Air Pollution Engineering, Municipal Solid Waste Management, Hazardous Waste Management, and AutoCAD.

Professional Skills

Research Experience

- Constructed multimodal datasets and models of coal transport on highways, waterways, and railways throughout the United States.
- Used these models to perform an analysis on which routes are the most efficient while minimizing emissions.
- Produced a program model that automatically constructs variations on these network models for varying input datasets in order to study infrastructure vulnerabilities in the network

Mathematics

- Maintained a perfect 4.00 GPA in all undergraduate calculus courses.
- Ability to perform and work through math problems steadily and thoroughly.
- Learns new areas of math quickly and efficiently.
- Flexible with many applications of mathematics, including chemistry and physics.

References

- Available upon request.