

Keith Diegel

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Personal Summary:

Mineral engineering graduate student with field experience, skilled in geologic and subsurface mapping, environmental and hydrological issues concerning industry, stratigraphy & sedimentology, well log interpretation, and possessing strong skills in industry relevant software including ArcGIS, Vulcan, Excel, Python, PetroMod, and database operation. Seeking opportunities in research, mining, and environmental sectors. I offer a proven track record of awarded academic excellence, career leadership (including management and safety) experience, and a mature, motivated desire to help responsibly produce the future's resources.

Experience:

- Field Geophysicist **Green Geophysics** 08/2020 – Present
 - Installing and interpreting results from magnetotelluric equipment
 - Host/ Head Writer **New Mexico Institute of Mining and Technology** Contract
 - Host and lead writer for [The New Mexico Tech Virtual Geoscience Roadshow](https://www.nmt.edu/academics/ees/geoscience_outreach.php) https://www.nmt.edu/academics/ees/geoscience_outreach.php
 - Geophysical Intern **New Mexico Office of the State Engineer** 7/19 – 7/20
 - Analyze gamma logs and other down-hole data to determine lithologic contacts. Maintain and edit databases (in ArcGIS and Access) for these data. Perform subsurface aquifer mapping.
 - Research Assistant **New Mexico Institute of Mining and Technology** 8/19 – 7/20
 - Researching sulfate-dominant speleogenesis in the Guadalupe Mountains, modeling possible thermal histories using PetroMod
 - Student GIS Analyst **New Mexico Bureau of Geology and Mineral Resources** 3/19 - 8/19
 - Digitizing maps and geographical information using ArcGIS and associated support programs (ArcCatalog, Microsoft Access, Excel, etc.)
 - Data Assistant **New Mexico Bureau of Geology and Mineral Resources** 2017 -2018
 - Utilized ArcGIS and Microsoft Office to locate, document, map, and describe ~25,000 mine sites in New Mexico
 - Associate **New Mexico Bureau of Geology and Mineral Resources** 2017 - 2018
 - Managed shipping and receiving of Publications Office materials, Catalogued Mineral Specimens
 - Advanced Tutor **UNM-Valencia Learning Commons** 2015 - 2016
 - Specialized in Math tutoring from Introductory Algebra to Integral Calculus, tutored in additional subjects including Earth and Planetary Science
 - Order Filler **Walmart Distribution Center** 2010 - 2015
 - Operated Forklift, filled orders, Team Member-Emergency Response, Asset Protection, Employee training and coaching
 - Night Manager **Albertson's** 2005 - 2010
 - Managed team of 3-8 personnel, Trained employees, Stocked shelves and managed inventory under accuracy and time deadlines
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Education:

- **New Mexico Institute of Mining & Technology, Socorro, NM**
M.S. *Mineral Engineering - Thesis: Examination of Fertilization in the Guadalupe Mining District, Lincoln and Torrance Counties, New Mexico* 2020 - 2022
 - **New Mexico Institute of Mining & Technology, Socorro, NM**
B.S., Cum Laude, *Earth and Planetary Science* 2017 - 2019
 - **University of New Mexico-Valencia**
A.S. *Mathematics*, Sigma Cum Laude 2014 - 2016
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Scholarships, Awards, Certifications

- Certificate in Microsoft Excel
 - Certificate in Vulcan
 - CPR certified
 - Forklift Certified
 - OSHA compliance training
 - *Alberta Flores* scholarship
 - Tech Scholar, New Mexico Tech
 - Honors Undergraduate – New Mexico Tech
 - Phi Theta Kappa Academic Excellence transfer scholarship
 - Carlsbad Gem and Mineral Society Scholarship
 - Roswell Geological Society Scholarship
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Relevant Coursework:

- Field Camp
 - Ore Petrography and Deposits
 - Stratigraphy and Sedimentology
 - Mineralogy
 - Geophysics & Geochemistry
 - ArcGIS
 - Ore Petrography
 - Critical Minerals
 - Hydrology and Field Methods
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Community Involvement, Volunteer Work, and Memberships:

- Former Vice President and cofounder of, “Robert Lessard Memorial Chapter,” American Institute of Professional Geologists (AIPG)
- Former Vice President and Treasurer of Student Chapter of Society of Economic Geologists, New Mexico Tech
- Financial Secretary, New Mexico Tech chapter of Society of Economic Geologists 2018 - 2019
- Organized Rockhounding trip for TOPs (Teen Outreach Program) for YDI's 2014 “Viva tu Vida! Get Up! Get Moving!” Program
- Member, AAPG (American Association of Petroleum Geologists), SME (Society for Mining, Metallurgy, and Exploration)