

Edison Russell

Jr. Hydrogeologist

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SUMMARY

Dedicated geoscience professional with a solid foundation in geological engineering and relevant experience in hydrogeological projects. Strong analytical skills equipped for performing data analysis using statistical methods, alongside proficiency in GIS and groundwater modeling software. Recognized for effective communication and report-writing abilities contributing to successful project outcomes. Experienced in developing and implementing groundwater monitoring programs that uphold environmental standards. Committed to sustainability with a readiness for extensive fieldwork globally. Eager to leverage knowledge and passion for geology in challenging environments.

EDUCATION

Bachelor of Science in Geological Engineering

University of Nevada, Las Vegas 🎓 GPA: 3.7 📅 2026 📍 Las Vegas, NV

Coursework: Hydrology, Environmental Geology, Geotechnical Engineering, Water Resources Management

TECHNICAL SKILLS

- **GIS Software:** ArcGIS, QGIS, MapInfo
- **Modeling Tools:** MODFLOW, FeFlow, Groundwater Vistas
- **Data Analysis Platforms:** Microsoft Excel, MATLAB, Python
- **Engineering Standards:** ASTM, USGS Guidelines, AASHTO
- **Field Sampling Equipment:** Piezometers, Water Quality Sensors, Grab Samplers
- **Reporting Tools:** Microsoft Word, PowerPoint, LaTeX
- **Testing Methodologies:** Aquifer Pump Tests, Step Testing, Tracer Testing
- **Certification Bodies:** EPA Standards, ISO, Army Corps of Engineers
- **Project Management Tools:** Trello, Asana, JIRA
- **Data Collection Devices:** Electronic Water Level Recorders, Total Stations, GPS Units

SKILLS

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|------------------------|----------------------------|---------------------------|---------------------------|
| • GIS | • Statistical Methods | • Field Monitoring | • Hydrological Assessment |
| • Groundwater Modeling | • Microsoft Office Suite | • 3D Visualization | • Sampling Techniques |
| • Data Analysis | • Aquifer Testing | • Technical Communication | • Project Management |
| • Report Writing | • Environmental Compliance | • Data Visualization | |

EXPERIENCE

Research Assistant

University Research Lab 📅 June 2024 - Present 📍 Las Vegas, NV

Oversee hydrogeological studies focusing on groundwater monitoring and remediation techniques. Guide data collection efforts and ensure compliance with environmental standards while collaborating with senior researchers to deliver impactful outcomes.

- Conduct comprehensive hydrogeological studies tasked with assessing groundwater quality and availability.
- Develop and implement groundwater monitoring programs aligned with legal standards, ensuring health and safety during all phases.
- Collaborate closely with senior researchers to analyze aquifer testing data and ensure thorough project documentation.
- Utilize ArcGIS and Excel for precise data visualization, enhancing both clarity and precision in project reporting routines.
- Present research findings through university symposiums, sharpening both technical and public engagement communication skills.
- Assist in drafting publishable research papers, showcasing ability for clear scientific communication as reflected in audience feedback.

Capstone Project Developer

Academic Project 📅 January 2024 - May 2024 📍 Las Vegas, NV

Managed capstone project focused on evaluating mining activities' impact on groundwater resources. Led a small team through rigorous data collection and analysis, creating strategic solutions supported by valid scientific methodologies.

- Led a dedicated team to evaluate local groundwater impacts stemming from mining operations, contributing practical insights for stakeholders.
- Employed advanced statistical methods for groundwater sample analysis, improving contamination detection accuracy.
- Designed and executed field tests weighing hydrological properties against regulatory benchmarks to inform disturbance solutions.
- Created detailed 3-D visualizations depicting groundwater flow leveraging GIS, directly aiding stakeholder comprehension.
- Worked alongside local agencies ensuring full alignment with environmental policies and community concerns.

- Presented actionable insights regarding project outcomes at a university forum, earning positive notes for clarity and applicability.

Hydrology Intern

Student Innovation Lab 📅 June 2023 - August 2023 📍 Las Vegas, NV

Supported multiple environmental projects analyzing hydrological data. Worked with experienced professionals in the lab setting, developing essential skills that can be transitioned into practical applications in various geoscience contexts.

- Assisted in detailed hydrological data analysis contributing significantly to early-stage project assessments.
- Worked with senior staff conducting field investigations to monitor compliance and study ecological impacts firsthand.
- Gained significant experience utilizing groundwater modeling software like MODFLOW and FeFlow, critical tools for simulation applications.
- Contributed to preparing comprehensive technical reports outlining fieldwork results, reinforcing best practices in scientific writing.
- Participated in team meetings providing updates and fostering brainstorming sessions that inspired innovative improvements in ongoing projects.
- Deepened technical writing and presentation competencies through structured mentorship, enriching communication flair.

LEADERSHIP & AWARDS

- Dean’s List, University of Nevada, 2024
- Best Presentation Award, University Research Symposium, 2025

CERTIFICATIONS

- CPR and First Aid Certified 📅 2025
- GIS Certification 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, Geoscience Club, University of Nevada
- Volunteer, Earth Day Cleanup Initiative, Las Vegas

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST