

Daniel Taylor, P.E.

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Actuarial Analyst | Professional Engineer | Data Analytics Expert

Analytical and detail-oriented Professional Engineer pivoting into actuarial science, with Exams P, FM, and SRM completed and a Master's in Statistics. Brings 10+ years of experience analyzing complex data, building tailored analytics solutions, and delivering insights that drive decision-making. Known for effectively communicating technical concepts to diverse audiences and applying a problem-solving mindset to quantitative challenges.

Work History

- Sep 2021 to Current

Natural Gas Storage Optimization Engineer

Hilcorp Energy Company, Anchorage, AK

 - Developed forecasting models using R, SQL, and custom-built web apps (Angular, Retool) to optimize natural gas injection and withdrawal strategies
 - Integrated real-time data with reservoir simulation software to monitor storage performance and inform operational decisions
 - Collaborated with multidisciplinary teams to align engineering models with regulatory and economic constraints
- Jan 2015 to Sep 2021

Petroleum Reservoir Engineer

Hilcorp Energy Company, Anchorage, AK

 - Used statistical and geospatial data to identify underdeveloped field zones, supporting drilling decisions with high ROI
 - Designed and executed injection strategies to enhance oil recovery, applying probabilistic modeling to reduce risk
 - Presented findings to executive leadership, translating complex subsurface models into business decisions
 - Aggregated technical well history files from 1,000+ wells into digestible data lake
- Jan 2013 to Jan 2015

Petroleum Operations Engineer

Hilcorp Energy Company, Anchorage, AK
- Aug 1999 to Aug 2004

United States Marine Corps, Sergeant of Marines

Technical Skills

- Data Analysis & Modeling:

R (Expert), Excel (Advanced), VBA, SQL
- Programming & Tools:

JavaScript, Angular, Typescript, Retool
- Databases:

SQL, MongoDB
- Mapping & Visualization:

QGIS
- Other Tools:

Microsoft Office Suite, Petroleum Experts (GAP, Prosper, MBAL)

Education and Accreditations

- M.S. in Applied Statistics, Texas A&M

May 2023
- Professional Petroleum Engineering License (AK: 143467)

Dec 2019
- B.S. in Petroleum Engineering, University of Alaska Fairbanks

May 2010

Exams

- Exam P (Probability)

Exam SRM (Statistics for Risk Modeling)
- Exam FM (Financial Mathematics)

Preparing for Exam PA (Oct 2025)