**Bruce G. Graham**

**ANALYZE DATA/SOLVE PROBLEMS/REMOTE:** I am very passionate about data analysis/solving problems as reflected by my projects and articles listed below. During my temporary retirement, I recently completed the training path to [Data Scientist in Python](https://www.dataquest.io/path/data-scientist/) . I’m ready to take on a broader range of new challenges.

**DATAQUEST PYTHON/SQL PROJECTS**

First four projects below **received Community Project Champion of the Week award** with comments by Community Manager as shown. These projects and others are posted in GitHub.

[Fandango 2015 Movie Ratings - Legit or Bias](https://github.com/BruceEng/Fandango-2015-Movie-Ratings---Legit-or-Bias-/blob/main/README.md) – *“Apart from amazing and informative graphs and profound statistical analysis, the project stands out for its interesting critics of data gathering process, individual approach to select a significant control group, curious observations and especially conclusion.”*

[CIA Factbook Data Analysis using SQL](https://github.com/BruceEng/CIA-World-FactBook-Data-Analysis/blob/main/README.md) - *“It stands out for its very thorough data analysis, incredible background research supplemented with amazing pictures and demonstrating a huge curiosity to the topic.”*

[Popular Data Science Questions](https://github.com/BruceEng/Popular-Data-Science-Questions/blob/main/README.md) – “*Here he conducted a very thorough analysis, added awesome insightful visualizations and images, made interesting observations, and listed the most frequent questions apart from the most frequent tags.”*

[Best E-Learning Markets to Advertise In](https://github.com/BruceEng/Best-E-Learning-Markets-to-Advertise-In/blob/main/README.md) – *“It stands out for its innovative approach, applying Pareto principle, creating insightful visualizations, digging deep into the data, and obtaining interesting findings.”*

[Hacker News Posts Analysis](https://github.com/BruceEng/Hacker-News-Posts-Analysis/blob/main/README.md) – dug much deeper with analysis than DataQuest solution guide and came up with a very significant different conclusion.

**EXPERIENCE**

Oregon Tool, *Quality & Mfg. Engineer*

Nov. 1997 – Jan. 2018

* Utilized RCA to solve product distortion problem – reduced reject rate from 36% to < 0.05%
* Assisted product supplier solve quality problem - identified problem source that supplier was not aware of via data analysis.
* Used statistical analysis to yield inspection cost reduction without sacrificing product quality - > $100,000 savings/year
* Applied DOE for supplier brazing operation, reduced defective rate from > 25% to < 2%
* Used Multiple Regression Analysis to significantly reduce automated machine downtime significantly.
* Developed software program interface and macros without formal training (i) automatically generated desired output in innovative manner (ii) to perform various test statistics not available on the market.
* Have extensive experience with statistical analysis software: *SPSS, SAS, STATGraphics, Minitab, & SQC*.

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| [My LinkedIn Profile](https://www.linkedin.com/in/bruce-graham-cssbb-p-eng-2787604a/) |  |
| [My GitHub Profile](https://github.com/BruceEng) |  |

**HARD SKILLS**

|  |  |
| --- | --- |
| * Python | * Data Cleaning * Data Visualization |
| * Pandas | * Data Manipulation |
| * Numpy | * GIT & Version Control |
| * SQL | * Regression Analysis |
| * APIs | * Design of Experiments |
| * Command Line | * Root Cause Analysis |
| * Six Sigma | * 7 Quality Tools |

**AWARDS/CERTIFICATES**

Completed DataQuest training path to ***Data Scientist in Python***: 144 lessons, 35 projects. [Certificate verified](https://app.dataquest.io/verify_cert/3IRA1A1OMSSTZHQJ4TVH/) - **Aug. 16/2021.**

Certified Six Sigma Black Belt – Jan. 2013 – exam: 99/100

ASQ - Certified Quality Eng. – Sept. 1987

Professional Engineer – 1977

**ARTICLES WRITTEN**

[Data Explains Unlikely Win](https://www.linkedin.com/pulse/data-explains-unlikely-win-bruce-graham-cssbb-p-eng-/) Used data analysis to show why 8th seed NBA team beat 1st seed team in 2011 basketball playoffs.

[Quality of Data](https://www.linkedin.com/pulse/quality-data-bruce-graham-cssbb-p-eng-/) **Is it even relevant to talk about the quality of DATA compared to the quality of product or service?**

[Show Me the Data](https://www.linkedin.com/pulse/show-me-data-bruce-graham-cssbb-p-eng-/) When is it appropriate to back statements with data?

**EDUCATION**

Bachelor of Applied Science – Mechanical Engineering - 1975