|  |  |
| --- | --- |
| Jeff Sedlock | (973)-600-1334 | sedlockjeff1@gmail.com  [LinkedIn Profile](https://www.linkedin.com/in/jeffrey-sedlock-3883b8152/)  [Portfolio Website](https://jsedlock.github.io/Portfolio-Website/)  Morris Plains, NJ |

# Skills

* Proficient in EPIC database reports
* Python (Pandas, NumPy, SciPy, MatPlotLib)
* Tableau
* Excel (VLookup, Conditional Formatting, Pivot Tables)
* SAP BusinessObjects
* Microsoft Power BI

# Projects

Blood Specimen hemolysis – Virtua Health **–** Marton, NJ December 2022

* Utilized **Python** to analyze 400,000 lab results to test hypotheses related to hemolysis levels
* Deployed **time-series** analysis to discover unknown trends for hemolysis rates throughout the 5 hospitals
* Aggregated and visualized the data by using **pandas, matplotlib,** and **seaborn** to compile a professional report

Hospital Bed Demand Prediction – Virtua Health **–** Philadelphia, PA January 2023

* Created a model in **Python** to project emergency bed demand for 2029, incorporating patient population, acuity, and seasonality.
* Performed linear adjustments to the data of patients' time in the hospital based on future hospital expectations
* Presented model results to real estate and development leaders for deployment

Intensive Care Unit Baseline data – Virtua Health **–** Philadelphia, PA May 2023

* Utilized **SAP** and **Python** to pull and analyze the patient data to gain insights into the functions of intensive care units
* Performed data cleaning and text analysis to successfully identified the most common procedures and diagnoses
* Presented baseline data and analysis to physicians for 4 intensive care units spanning 3 hospitals

Manufacturing production dashboard – Viking Yachts –New Gretna, NJ August 2020

* Created a dashboard with **Power BI** to help floor supervisors monitor production times
* Transformed and processed data by using **DAX** and **Excel** to ensure data completeness and validity
* Leveraged six sigma and control charts to identify opportunities in production times
* Provided technical support and education to dashboard users

# Work Experience

Management engineer **–** Virtua Health **–** Marlton, NJJanuary 2022 - Current

* Manage and lead a project portfolio of 3-5 projects at a time, driving system-wide initiatives and cost savings of over $5M.
* Analyze and interpret data using Python, Tableau, and Excel to provide insights and support decision-making by senior leaders.
* Conduct in-person observations at five hospitals to gather project information and understand underlying data processes and validity
* Facilitate meetings with multi-disciplinary teams to develop consensus and drive business outcomes.

Industrial Engineer Intern – Viking Yachts – New Gretna, NJ May 2021 – August 2021

* Aided in the implementation of a labor tracking system using Power BI, tracking over 250,000 hours.
* Analyzed process effectiveness using lean/six sigma tools, identifying areas for improvement and measurable impact on production performance.
* Created Power BI dashboards to visualize data and facilitate discussions with management.

# Education

Bachelor of Science, Industrial Engineering – West Virginia University – Morgantown, WV December 2021