

# Edwin Gates

## Industrial Analytics Engineer

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### SUMMARY

Results-oriented Industrial Analytics Engineer boasting over 7 years in optimizing industrial processes and analytics. Expert in capacity modeling, labor cost analysis, and utilizing simulation tools to enhance efficiency. Hands-on experience integrating advanced data analytics with manufacturing systems drives contributions towards operational excellence. Skilled in financial modeling and collaborating with cross-functional teams ensures effective strategies yield significant throughput improvements and cost reductions. Passionate about leveraging analytical insights to foster innovation and progress within organizations, aiming for impactful solutions that align directly with business objectives.

### EXPERIENCE

#### Industrial Analytics Engineer

Data Insights Corp 📅 June 2021 – Present 📍 Cleveland, OH

Focused on enhancing manufacturing analytics and process optimization using advanced technologies like SQL and Python. Engaged significantly in developing robust modeling frameworks for capacity and labor cost reduction.

- Developed comprehensive capacity models, improving overall equipment effectiveness (OEE), leading to a more productive industrial environment.
- Executed labor optimization projects, reducing labor overhead through innovative analytics and strategic modeling techniques.
- Applied AnyLogic for simulation scenarios addressing bottlenecks, resulting in marked improvements in throughput and production efficiency.
- Seamlessly integrated shop-floor data with MES systems, augmenting data accuracy and operational flow.
- Conducted scenario analyses and sensitivity modeling to project realistic manufacturing costs and returns on investment effectively.
- Collaborated with multifaceted teams, advocating data-driven insights to refine manufacturing operations.

#### Senior Industrial Engineer

Manufacturing Analytics Ltd. 📅 March 2017 – May 2021 📍 Dallas, TX

Led initiatives matching industrial engineering principles with data sciences. Developed impactful structures increasing both productivity and efficiency significantly while driving down operational costs.

- Spearheaded creation of intricate engineering models that accounted for entire workflows and reduced operational costs by adopting better practices.
- Executed detailed capacity calculations which unveiled key areas needing attention, transforming production flow and responsiveness.
- Introduced advanced analytics utilizing SQL and Python for refined decision-making across diverse functions.
- Architected material flow models enhancing supply chain logistics, leading to enhanced effectiveness.
- Forged partnerships with finance departments to generate compelling business cases, aligning data perspectives with corporate strategy.
- Delivered training sessions on BI tools, empowering team expertise and broadening overall capabilities.

#### Industrial Engineer

Tech Innovators Inc. 📅 August 2014 – February 2017 📍 Austin, TX

Engaged primarily in engineering solutions directed toward increasing production value while minimizing waste and inefficiencies within existing methodologies.

- Conducted strategic capacity and labor modeling fostering optimized production strategies tailored for various environments.
- Identified performance gaps through extensive factory operation assessments, enabling targeted enhancements boosting operational throughput.
- Generated insightful reports leveraging advanced Excel functionalities for management-level decisions.
- Worked collaboratively to integrate analytics seamlessly with MES infrastructures, achieving optimal system functionality.
- Assisted financial teams in crafting operational models including ROI and NPV for fresh initiatives driven by analytical insights.
- Evaluated multiple simulation tools aiding ongoing assessment and refinements of industry practices.

### LEADERSHIP & AWARDS

- Lean Six Sigma Green Belt Certification
- Certified Analytics Professional (CAP)

### EDUCATION

#### Bachelor of Science in Industrial Engineering

University of Illinois 🎓 GPA: 3.8 📅 2014 📍 Champaign, IL

**Coursework:** Manufacturing Processes, Data Analysis, Simulation Techniques, Operations Management

CERTIFICATIONS

- Certified Lean Six Sigma Green Belt 📅 2021
- Certified Analytics Professional (CAP) 📅 2022

TECHNICAL SKILLS

- **Data Analytics Tools:** Excel, SQL, Python
- **Simulation Software:** AnyLogic, FlexSim, Simio
- **BI Tools:** Power BI, Tableau
- **Manufacturing Standards:** Lean Manufacturing, Six Sigma, Kaizen
- **Financial Modeling Techniques:** ROI Analysis, NPV, Cost-Benefit
- **Collaboration Platforms:** Microsoft Teams, Slack, Zoom
- **Project Management Systems:** Asana, Trello, JIRA
- **Manufacturing Technologies:** MES Systems, SCADA, PLC
- **Quality Assurance Methods:** FMEA, Root Cause Analysis, Statistical Process Control
- **Forecasting Techniques:** Time Series, Regression, Bayesian Models

SKILLS

- |                        |                      |               |                         |
|------------------------|----------------------|---------------|-------------------------|
| • Capacity Modeling    | • Financial Modeling | • Excel       | • Operations Management |
| • Data Analytics       | • SQL                | • AnyLogic    | • Forecasting           |
| • Simulation Tools     | • Python             | • Tableau     | • Cost Analysis         |
| • Process Optimization | • Power BI           | • MES Systems | • Material Flow         |

PROFESSIONAL AFFILIATIONS

- American Society for Quality (ASQ)
- Institute of Industrial Engineers (IIE)

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST