LYNDSEY POHL

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Analytical, innovative junior software engineer with experience in development and manufacturing seeking to leverage background into a developer role for a progressive organization.

CORE COMPETENCIES

Python | Django | Ruby | SQL | JavaScript | HTML | CSS | Unity | Blender | C# | Linux | Git | R | Data Mining & Machine Learning |Scientific Computing & Programming | Six Sigma

KEY CONTRIBUTIONS

- Built non-equilibrium heat transfer model to understand transient temperature behavior of silica soot.
- Characterized flame deposition behavior via image analysis and data processing.
- Statistically tested if presidential candidates' tweet content was dependent on standing during the election.
- Determined important success factors in NFL running plays using logistic regression and decision trees.
- Forecasted expected clinical visit patient volume using Holt-Winters and ARIMA models.
- Gained proficiency in both quantitative and qualitative business mathematics, statistics, modeling, data science and thorough analysis to better align recommendations with goals.
- Gained proficiency with widely used practices of data manipulation and integrity including Box-Cox and Scatterplots to identify opportunities for interpreting different variables in different models, and outlier versus influential points tests.
- Acquired knowledge of Logistic Regression, Bayesian Statistics, Poisson Regression, Linear, and other statistical distributions, and developed statistical files and coding to streamline analysis.

PROFESSIONAL EXPERIENCE

Shift Supervisor | Corning Optical Fiber | Wilmington, NC | 2020-2021
Provided guidance and operations support to floor associates and technicians in union plant to achieve production targets. Built and maintained ware-flow plans and production schedules. Motivated employees and settled interpersonal disputes.

Development Engineer | Corning Research & Development, Optical Fiber | Wilmington, NC | 2018-2020
Improved combustion and deposition process by designing experiments to inform revolutionary equipment design. Designed experiments to fundamentally understand silica deposition process using flame chemistry and fluid dynamics. Modeled non-equilibrium deposition process to understand soot properties and heat transfer. Mined production data to determine causal relationships. Led campus recruiting efforts as part of the engineering recruiting team.

Process Engineer | Corning Life Sciences | Durham, NC | 2016-2018
Improved plasma-enhanced chemical vapor deposition process through machine installations and process changes. Led multiple cost reduction projects of identifying process root causes, and capital projects all on time and within budget.

Graduate Student Researcher | University of Michigan, The Violi Group | Ann Arbor, MI | 2014-2015
Investigated the structure of ceramic nanoparticles using computational statistical mechanics methods such as Molecular Dynamics. Instructed and mentored 60 undergraduate students in thermodynamics.

PREVIOUS WORK HISTORY:
Strength Engineer, Toyota Motor Engineering & Manufacturing, Ann Arbor, MI, 2013-2014
Field Engineer, Schlumberger Drilling & Measurements, Lafayette, LA, 2011-2012

EDUCATION

MS, Data Science, University of Wisconsin – Osh Kosh (completed 18 credits)
MS, Mechanical Engineering (*Magna Cum Laude*), University of Michigan – Ann Arbor
BS, Mechanical Engineering (*Cum Laude*), University of Michigan – Ann Arbor