Greg Hauser

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EDUCATION

North Carolina State University — Raleigh, NC
Ph.D. Operations Research — *May 2022*
Dissertation: "Optimization and Matching Theory"
M.S. Operations Research — *May 2021*
B.S. Industrial & Systems Engineering — *May 2018*
Minor in Materials Science Engineering

TECHNICAL SKILLS

Python, Gurobi, R, R-Shiny, C++, SQL, Tableau

EXPERIENCE

U.S. Army, The Research and Analysis Center (TRAC)
Operations Research Analyst (Civilian) May 2021 - Present

- Built in-house linear programming solver based in R-Shiny for 'drag and drop' functionality. Currently in use.
- Designed for analysts with limited programming experience.
- Pre-formulated "paradigms" simplified user experience by allowing users to upload only the most relevant aspects of formulation.

Tesla Motors, Inc. — Reno, NV
Industrial Engineer (Intern) August 2017 – December 2017

- Designed a full-scale production assembly process from prototype assembly with Lean Manufacturing principles (bridge solution was used for months).
- Developed a machine-availability data collection, calculation, and reporting system (using SQL & Tableau).
- Worked cross-functionally within a highly matrixed organization to secure necessary information and resources from disparate teams.

Hanesbrands, Inc. — Winston-Salem, NC
Logistics Engineer (Intern) June 2017 – August 2017

- Developed forecasting strategy and tool for internal logistics resource allocation.
- Implemented, trained to, and planned sustaining efforts for technical forecasting tool.
- Managed communication across parallel teams to coordinate production and logistics planning

AREAS OF EXPERTISE

- Linear & Combinatorial **Optimization** (Gurobi); modeling, theory, application
- **Simulation** & Complex Computation (Python, R)
- **Statistical Learning** using Inference, Time Series Analysis, Regression, & Design of Experiments
- Microeconomics **Matching Theory** & Mechanism Design

PAST PROJECTS

Automated Video Analysis
Time Studies using Computer Vision, Lean Manufacturing Spaghetti Diagrams using Object Tracking, Path Differentiation, Clustering Methods
Peripheral Machine Sensing
State Sensing (IOT Manufacturing) with Arduino, C++, Time Series Analysis

AWARDS

Science, Mathematics, and Research for Transformation (SMART) Scholarship
August 2019 – May 2021
Dean's Fellowship
August 2018 – May 2019