

Contact

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Top Skills

Arena

Mathematical Modeling

Matlab

Sean M. Carr

Industrial Engineer and Lifelong Learner

Dallas

Summary

In summary, I consider myself a strong discrete-event simulation practitioner, but my interests are quite diverse and span multiple industries and methodologies.

My early undergraduate and graduate research experience involved the freight logistics and distribution field as well as public health resource planning for epidemics and disasters. My doctoral research developed simulation-based methods to analyze and evaluate new medical technologies from a health economic perspective. I focused primarily on evaluating regenerative medicine technologies, which at the time were largely experimental and subject to significant uncertainty in costs and outcomes.

After earning my PhD, I spent shortly over a year as a health economist creating analytical models to evaluate pharmaceuticals in several disease areas. In 2015, I transitioned into the AEC industry. Currently, I am an Industrial Engineer in Dallas, TX, focused on data-driven design in architecture and engineering, including the use of simulation and parametric design. Since working in architecture and engineering, my experience has largely been in healthcare design, but we are starting to show the potential in other market sectors, including education, retail, manufacturing, and technology.

Keywords: Operations Research, Simulation Modeling and Analysis, Optimization, Data Analytics, Architecture, Engineering, Computational Design, Parametric Design, Health Economics, Cost-Effectiveness Analysis, Regenerative Medicine, Healthcare Process Improvement, Logistics

Experience

HDR

Industrial Engineer

December 2017 - Present (3 years)

Dallas/Fort Worth Area

Page Southerland Page, Inc.

Associate/Simulation and Operations Modeling Specialist

January 2015 - December 2017 (3 years)

Dallas, TX

RTI International

Research Health Economist

October 2013 - January 2015 (1 year 4 months)

Research Triangle Park, NC

Carr Analytic Solutions LLC

Simulation Engineer

May 2012 - May 2013 (1 year 1 month)

Waterloo, IA

North Carolina State University

Graduate Research Assistant

August 2008 - May 2012 (3 years 10 months)

Raleigh, NC

University of Missouri-Columbia

Research Assistant

2005 - 2008 (3 years)

Education

North Carolina State University

Ph.D, Industrial and Systems Engineering · (2008 - 2013)

University of Missouri-Columbia

BSIE, MSIE, Industrial Engineering · (2003 - 2008)