

CARSON DICKEY

Director of Engineering Solutions



Carson is focused on combination medical device qualification and validation in the biopharmaceutical cold chain. He works alongside other consulting engineers at Modality Solutions to provide design and validation engineering services by conducting thermal packaging design and qualification for environmentally-sensitive drug products. Carson also serves as a key technical liaison with your development team. He provides assistance with new drug product transport simulation test design, risk assessment, and protocol development.

Carson received his Master of Engineering in Biomedical Engineering with a certification in Quality Engineering for Regulated Technologies from Texas A&M University. While at Texas A&M, Carson worked as a graduate researcher, where he conducted risk assessments and created a verification testing plan to support the development of a medical device. As a Bioinnovation Design Fellow, Carson participated in the design, prototype fabrication, design verification testing, and development of testing protocols and procedures for cutting-edge medical devices. He designed innovative polymeric medical device technologies, implemented antimicrobial properties in the devices, and developed testing plans.

As an engineering undergraduate researcher at LeTourneau University, Carson led and published a paper, in conjunction with Frontier Wheelchairs, on rolling resistance research. The paper was published in the RESNA Assistive Technology™ Journal. In 2018 Carson raised funds and joined Hope Haven International Ministries located in Antigua, Guatemala, where he helped perfect and manufacture pediatric and adult wheelchairs to be used on rough terrain, using his wheelchair research analysis and testing results.

Work Experience

Reynolds & Reynolds
Frontier Wheelchairs
Ben Hogan Sports Medicine

College Station, TX
Longview, TX
Forth Worth, TX

Education

Master of Engineering in Biomedical Engineering
Bachelor of Science in Engineering

Texas A&M University
LeTourneau University

Affiliations

Rehabilitation Engineering & Assistive Technology Society of North America (RESNA)