



**TYLER JANECEK**  
**STAFF CONSULTANT**

[tjanecek@engsys.com](mailto:tjanecek@engsys.com)

Mr. Janecek is a Staff Consultant located in the Omaha, Nebraska office of Engineering Systems Inc (ESi) and practices mechanical engineering. He has experience in utility equipment, hydraulic systems, structural design, electrically insulating aerial equipment, and is part of ESi's Rail Practice Group.

Mr. Janecek specializes in the design and evaluation of mechanical systems and equipment. He has extensive experience in solid modeling, finite element analysis, fabrication, and prototype testing. He has 6 years of industry experience designing electrically insulating mobile elevating work platforms (MEWP), digger derricks, and underground cable handling equipment for the utility market. During that time, he was involved in the design, testing, and implementation of all aspects of the equipment including the structures, machine design, hydraulic system, insulating system, power generation, and body compartments.

Mr. Janecek has also been involved in the creation and upkeep of internal company standards relating to anaerobic adhesives, electrically insulating material qualification, and electrically insulating MEWP qualification and periodic testing.

**Areas of Specialization**

Solid Modeling  
Mechanical and Materials Design  
FEA  
Hydraulic Systems  
High Voltage Dielectric Protection Systems  
Mechanical Testing

**Education**

B.S., Mechanical Engineering, University of Nebraska – Lincoln, 2016

**Certifications**

Hydraulic Specialist (IFPS) 35532, 2022  
Mobile Hydraulic Mechanic (IFPS) 24094, 2018

## **Positions Held**

### **Engineering Systems Inc., Omaha NE**

Staff Consultant, 2023 - Present

### **Altec Industries, Specialty Product Engineering, St. Joseph, MO**

Staff Engineer, 2021 - 2023

Engineer II, 2019 - 2023

### **Altec Industries, Aerials Product Engineering, St. Joseph, MO**

Engineer II, 2019

Engineer I, 2017-2019

## **Continued Education**

Dale Carnegie Course: Effective Communication & Human Relations, Skills for Success

Dale Carnegie, St. Joseph, MO 2018

Fastener Training

Fastenal, St. Joseph, MO, 2018

Blodgett's Design of Welded Connections

Lincoln Electric, Cleveland, OH 2019

Level 1 GD&T Fundamentals

Sigmatrrix, St. Joseph, MO 2022

## **Technical Teaching and Presentations**

"Dielectric Effects of Vacuum in Hydraulic Lines"

Introduction to Dielectric Systems course, Altec Industries, St. Joseph, MO 2022