

## **Amphenol Corporation Reshoring Busbar Assemblies**

**Alden Gonzalez, Daniel Sonnenfeldt, Adam Suda, and Richard Whalen**

Systems Science & Industrial Engineering Department  
T.J. Watson School of Engineering & Applied Science  
State University of New York at Binghamton, Binghamton, NY

Corresponding author: [Dsonnen1@binghamton.edu](mailto:Dsonnen1@binghamton.edu)

**Author Note:** We are System Science and Industrial Engineering students at Binghamton University. For our Senior Design Capstone Project we are working with Jeff Knight and Sergey Gelman of Amphenol Corporation.

**Abstract:** Amphenol Corporation was awarded a contract to manufacture 70 busbar assemblies and have requested assistance to help get started. Our team is helping Amphenol begin the production process and make sure all completed assemblies are delivered to the contractor on time. We have already assisted Amphenol by researching safety methods, completing work instructions for subassemblies, along with improving the crib area for storage of parts and assemblies. We are currently gathering production data for analysis in order to optimize a time calculator model. This time calculator will be used for probable completion time of future parts based on current production times, allowing them to improve processes that are inefficient and overall process flow. These models and tools can be used for future projects.

*Keywords:* Process improvement, process flow, manufacturing