



Abstract:

The Mail Transport Equipment Study (MTES) Team was a student-based engineering team from Stevens Institute of Technology that worked for the United States Postal Service (USPS) Teterboro Process and Distribution Center (P&DC). The MTES Team worked with USPS to optimize the current MTE (Mail Transport Equipment) process. There existed disorder and a lack of methodology with the sorting and transporting of mail within the facility. The MTES Team searched for both short term and long term goals in the MTE study.

The service provided by the team is a plan to reduce costs associated with the rehandling, transporting, and sorting of Mail Transport Equipment (MTE). The advantages of this service include better efficiency in mail transportation, better organization of in-house equipment, time reduction in the searching for equipment, and ultimately an increase profits for the client.

Two solutions were developed that both involved setting up staging areas for the MTE and predicting how much MTE was needed in each staging area for a given day. One solution used Microsoft Excel to perform a modeling simulation based on user defined variables, while the other used a complex algorithm and web-based software solution to predict the quantity of MTE needed at a given time.