

SENIOR DESIGN FINALIST



Back (left to right): José Rodrigo Espinosa, Stephen Fausel, Brenton Hochstetler, Brandon Hochstetler; Front (left to right): Dr. Alexander Shapiro, Lane Bourgeois, Katie Kim, Donna Riggins, Ashley Everett

Student Team: Lane Bourgeois, José Rodrigo Espinosa, Ashley Everett, Stephen Fausel, Brandon Hochstetler, Brenton Hochstetler, Katie Kim, Donna Riggins

Faculty Advisor: Dr. Alexander Shapiro

Project Title: Schedule Optimization for Asset Inspection

Project Summary: Railcar Management, Inc. provides software solutions for railroad companies. RailDOCS, a software suite, manages the testing of fixed assets along railroads. By providing an exact testing schedule using an optimization model, the number of tests performed per year will be minimized. On average, the model saved 109 labor hours per maintenance worker - an estimated revenue of \$235,000 to RMI.