



FAMU-FSU
College of
Engineering

Design Review 4

Team 504: Corning's Automated Pallet Topper

Ahmari Avin, Brightson Bazile, Michael Capera, Daniel Mack, Craig Yox

January 30th, 2025

Team Members



Ahmari Avin
Computational
Engineer



Brightson Bazile
Systems Engineer



Michael Rodriguez
Capera
Manufacturing
Engineer



Daniel Mack
Design Engineer



Craig Yox
Materials Engineer



Sponsors and Advisors

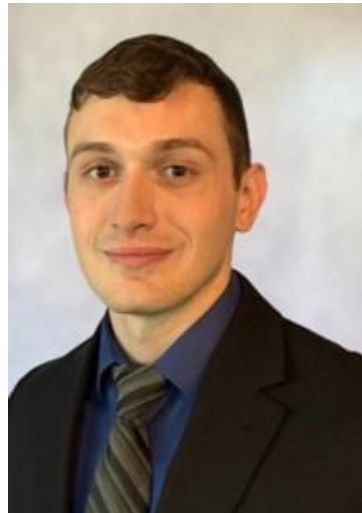
CORNING



FAMU-FSU
College of Engineering



Jeffery Roche
Project Manager



Trent Brush
Project Leader



Christian Hubicki, Ph.D.
Project Advisor



Objective

The objective of this project is to design an automated system to assist in Corning's current palletization and depalletization process through the placement and removal of pallet toppers and embedded foam layers.

Project Overview

Corning manufactures Diesel Particulate Filters

Builds pallets for storage before further processing

Pallets require employee's efforts for topper placement and removal

Automated system to operate between these two cells

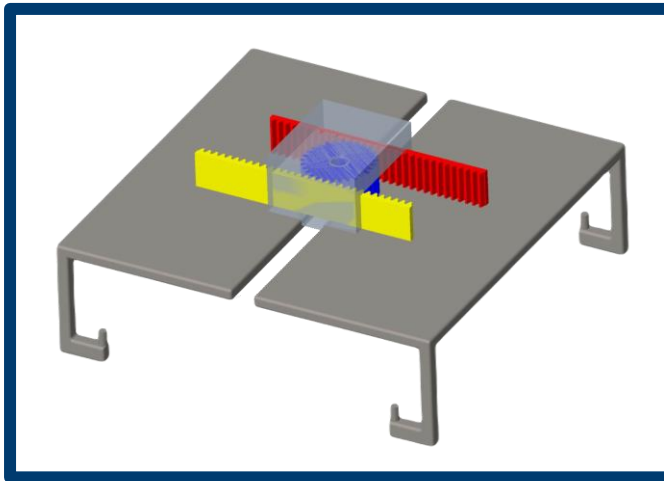


Preliminary Design

GUDEL 2-Axis Gantry

Tooling Concept

Rotary Clamps



Main Priorities

Carries Load



Determines Height



Cycle Times



Main Priorities

Carries Load



Main Priorities

Carries Load



Determines Height

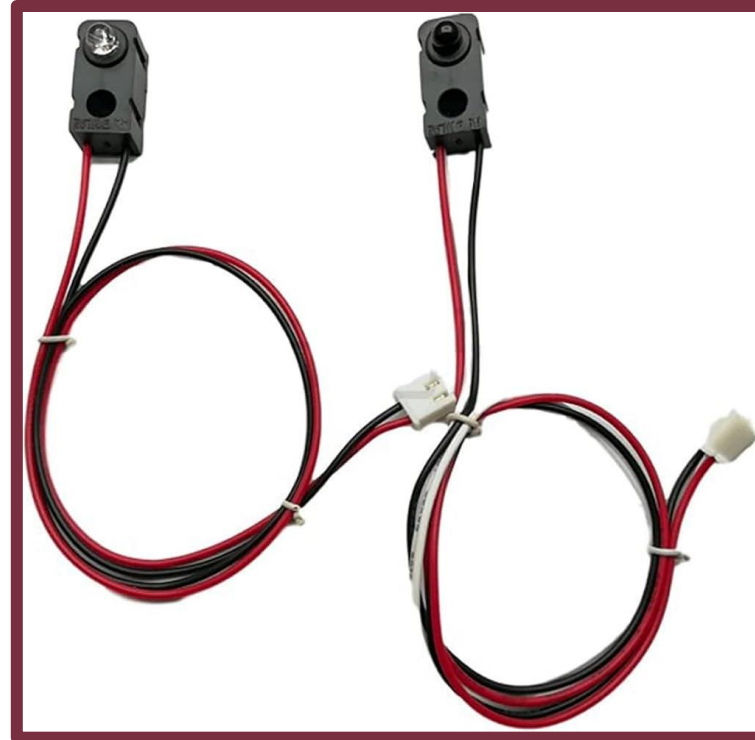


Cycle Times



Main Priorities

Determines Height



Main Priorities

Carries Load



Determines Height



Cycle Times



Main Priorities

Cycle Times



Main Priorities

Carries Load



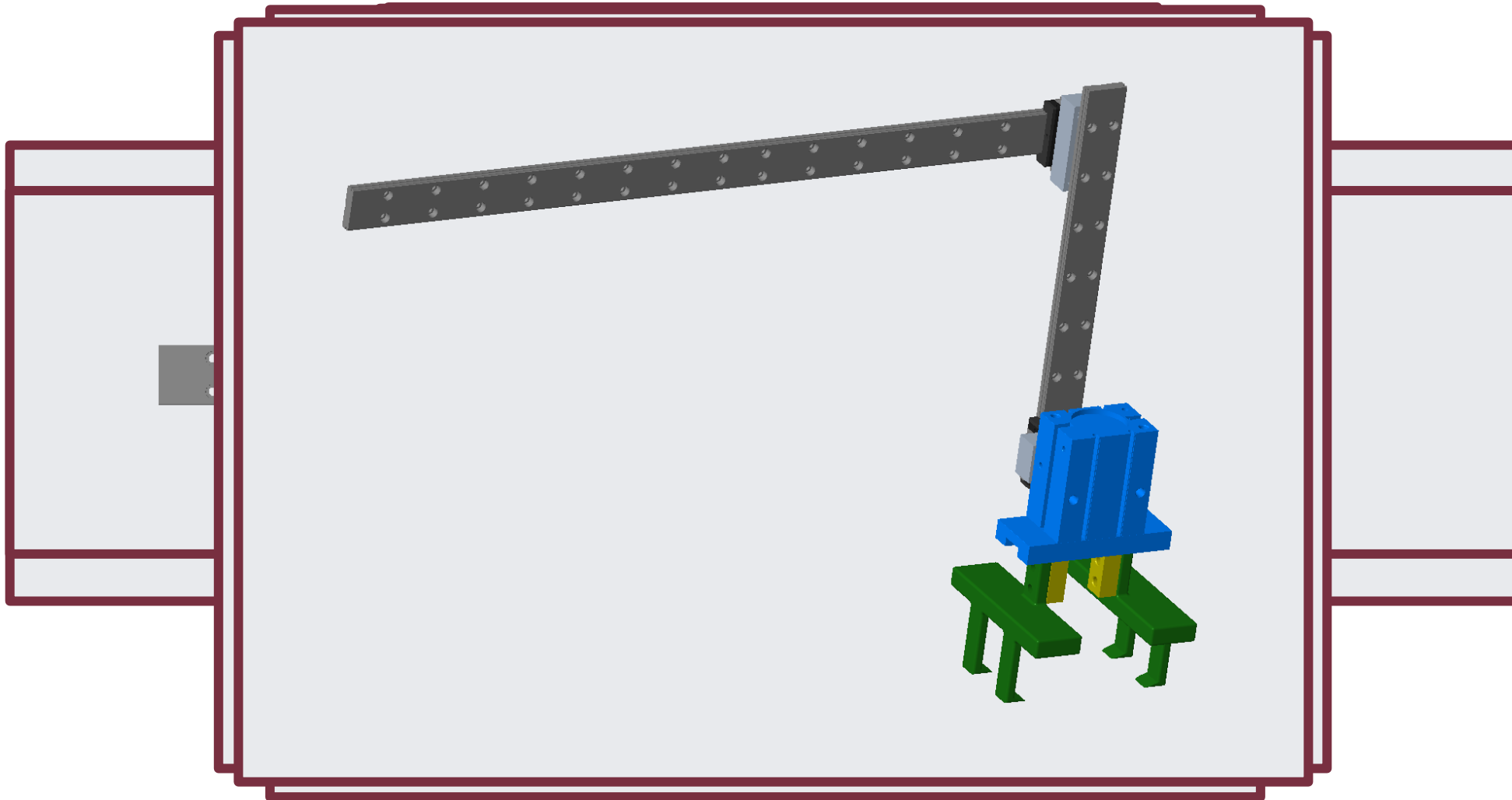
Determines Height



Cycle Times



Concept Design



Current Budget



Future Work

