Virtual Design Review 1

Team 506: Corning Plugger Pallet Short Part Stabilization

Team Members



Pawel J.
Grum
Mechanical Test
Engineer



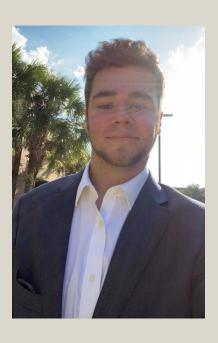
Robert C. Kosmas Structural Design Engineer



Taylor M. Larson Dynamics Engineer



Segundo A.
Sanchez
Materials Analysis
Engineer



Jared T.
White
Facilities and
Manufacturing Engineer



Sponsors and Advisors

Jeffery Roche



Engineering Mentor

Heavy Duty Project

Manager

Jeffery Stott



Engineering Mentor
Equipment Engineering
Manager

Eric Hellstrom, Ph.D



Academic Advisor

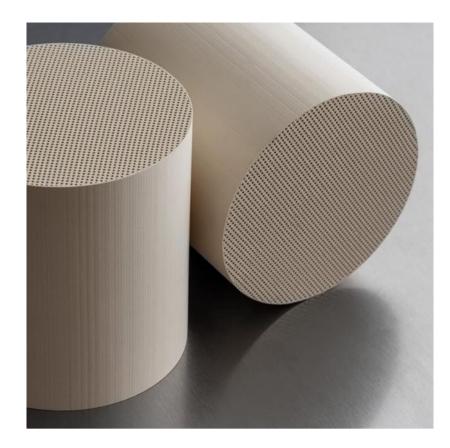
Materials Science

Program Director



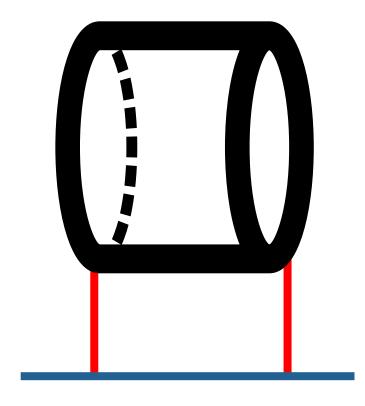
Sponsor Background







Project Background



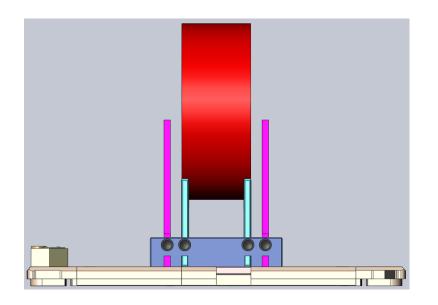


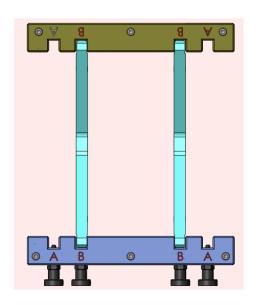
Project Background

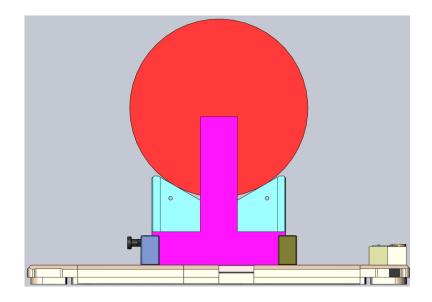




Current Design









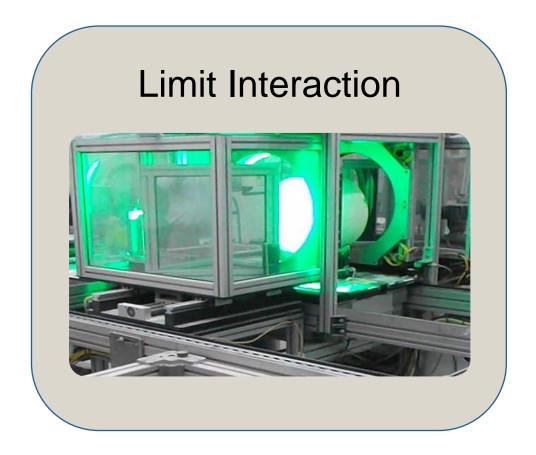
Project Objective

The objective of this project is to design and create a stabilization system to protect ceramics on Corning's conveyor while reducing the required manual labor.



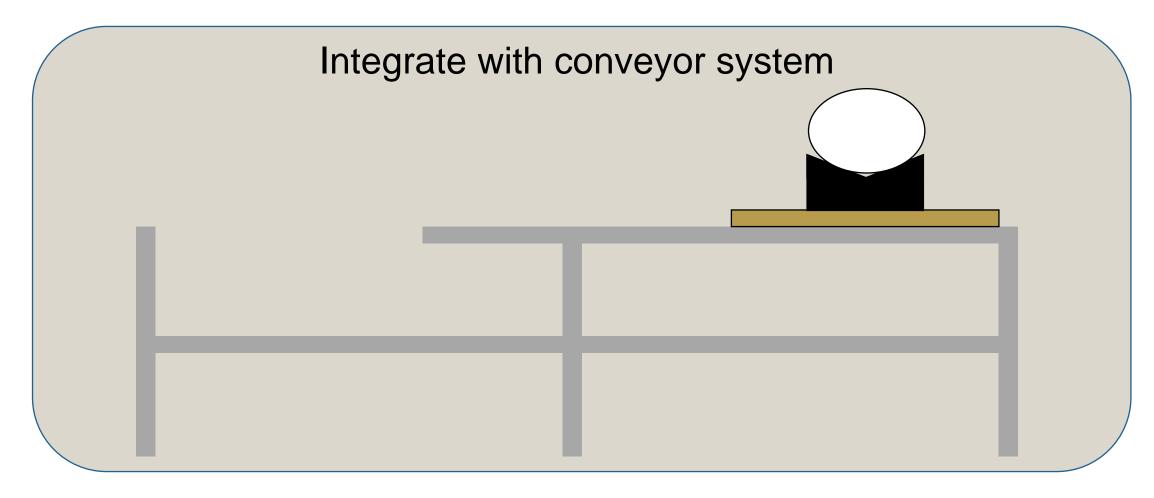
Key Goals







Key Goals





Assumptions

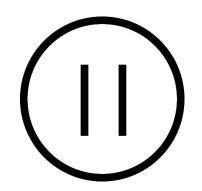
Conveyor and Pallets
Remain Level



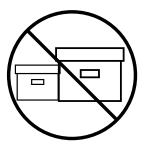
Accurate Information/Data



Current Plant
Conditions
Remain
Constant



Pallets are Uniform





Customer needs



Protect Ceramics



Limit Human Interaction



Comply with Space Limitation





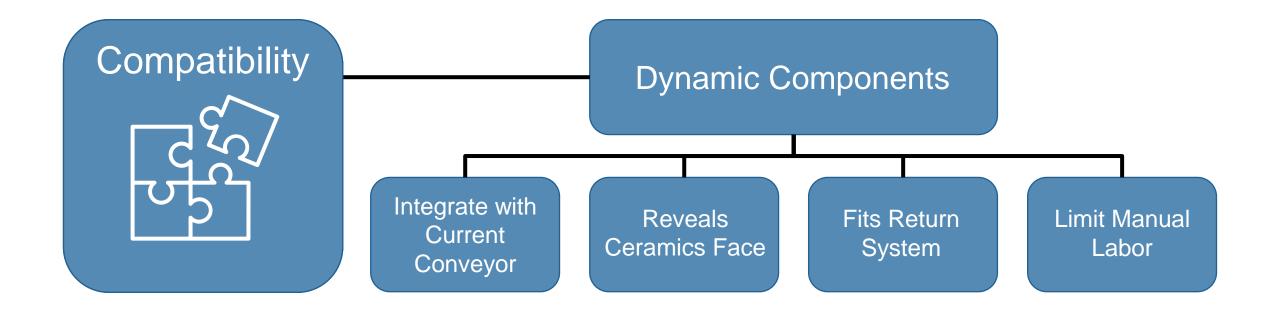




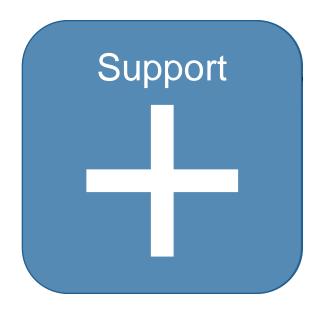






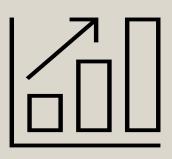








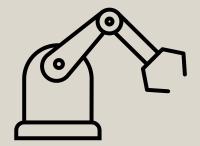
Future Work





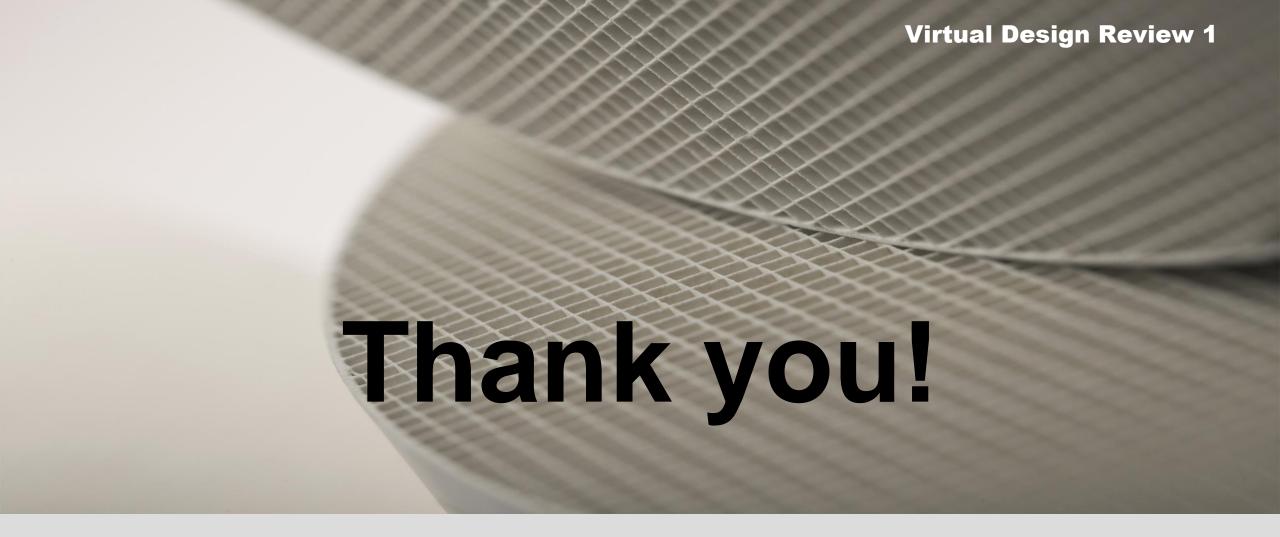


Concept Generation & Selection



Prototyping





Pawel J. Grum | Robert C. Kosmas | Taylor M. Larson | Segundo A. Sanchez | Jared T. White