



MSD I-P09701

P09701: Corning Tropel LightGage Metrology System

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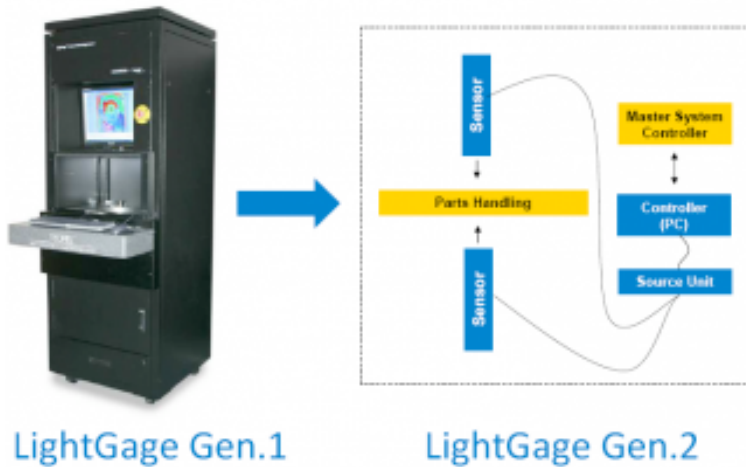
Cara Portka (ISE)

Benjamin Arkin (EE)

Nicholas Schneider (ME)

Project Description

- ▶ The MSD team will be tasked with developing the second generation Corning Tropel LightGage Metrology System capable of measuring both sides and the thickness of a given test piece.
- ▶ The product is a highly accurate device and will necessitate strong requirements of being isolated thermally, environmentally, optically, and especially from shock and vibrations.



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Deliverable Status - Week 1

- ▶ Preliminary Needs Assessment **Complete**
- ▶ Project Overview Presentation **Complete**
- ▶ Preliminary Plan Elements **All Complete**
 - 1-page Project Summary
 - Work Breakdown Structure with Team Roles
 - 2-Quarter schedule/milestones
- ▶ Team Norms, Values, Ethics **Complete**
- ▶ Documents Uploaded to Edge **Complete**

Key Challenges

- ▶ The project requirements present a number of Key Challenges:
 - Environmental Isolation
 - Vibration isolation
 - Thermal isolation
 - Optical isolation
 - Total individual test time of less than one minute (<1min)
 - Ease of setup and operation
 - Mechanical Design
 - Motions
 - Part Placement