



# Door Handle Tester - Team 17

#### Overview of Purpose

•Create an automotive door handle tester to increase the speed and accuracy of testing.

### Overview Specs

- Test setup should be no longer than 15 minutes
- •Test duration should be no longer than 2 minutes
- Less than 10% in a Gauge R&R study
- Fit 5 unique MAGNA handles
- Create a universal benchmark fixture

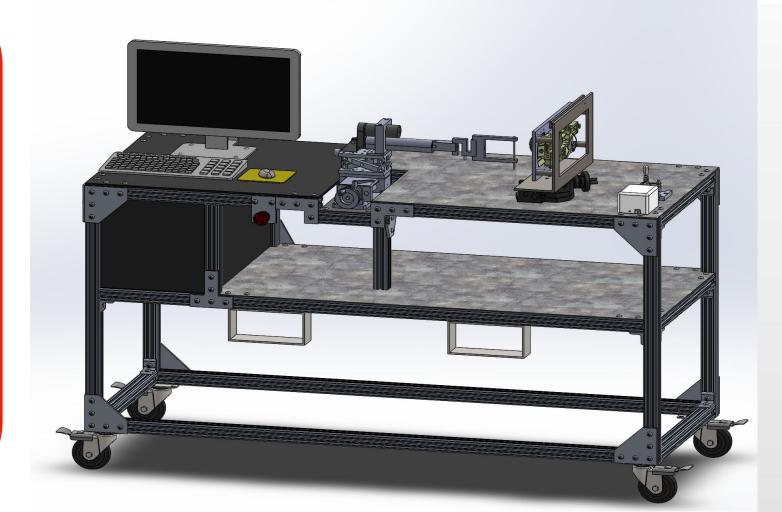
#### Use Case

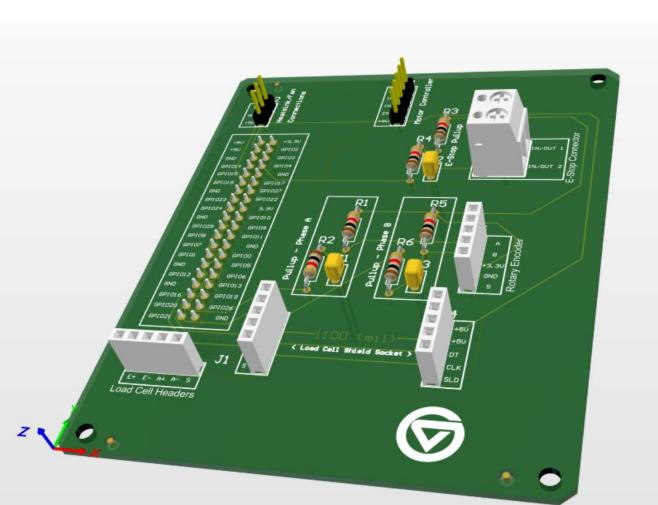
- User manually load handles on to fixture
- Control actuator position with custom user interface to position handle gripper
- •Start test to pull handle, measure cable travel, and force
- Exports data to USB for further study

## How Specs Were Met

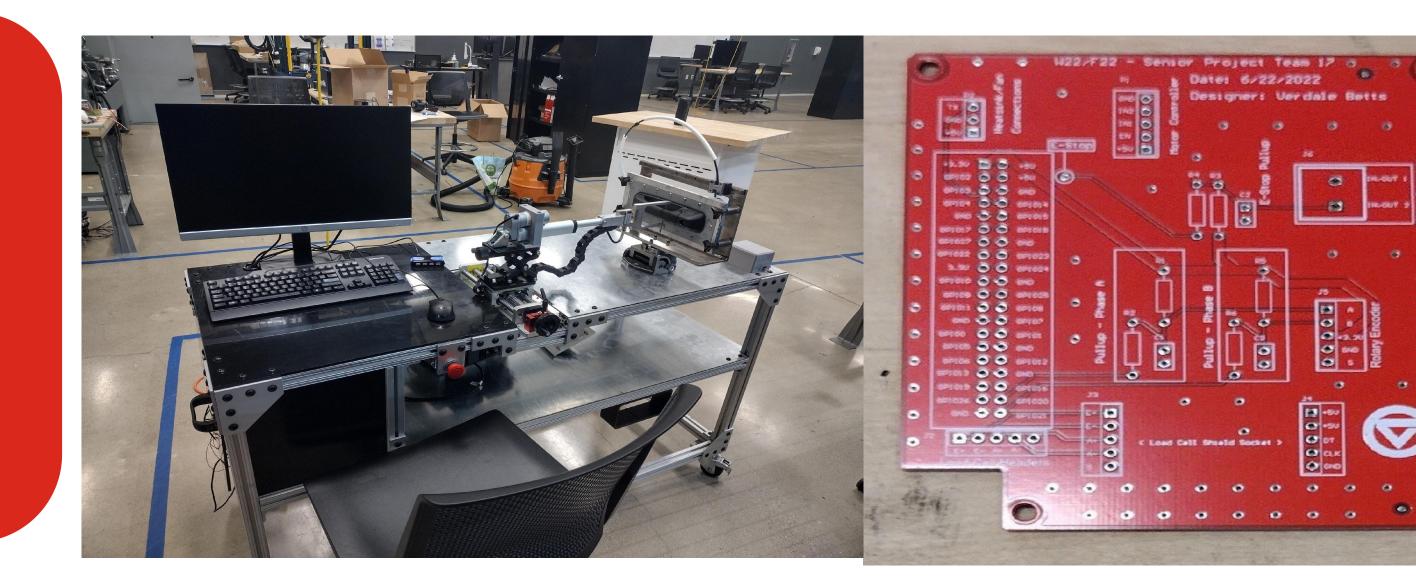
- To meet time specs
- •Thumb screws to hold handles to fixture
- Automation of pulling handle
- To meet R&R
- Sturdy frame for tester
- Automated pulling of handle
- To fit all handles
- Adaptable handle fixture
- Benchmark plate

Design





Build



Test

