

# Gantry Electronics Hub Box

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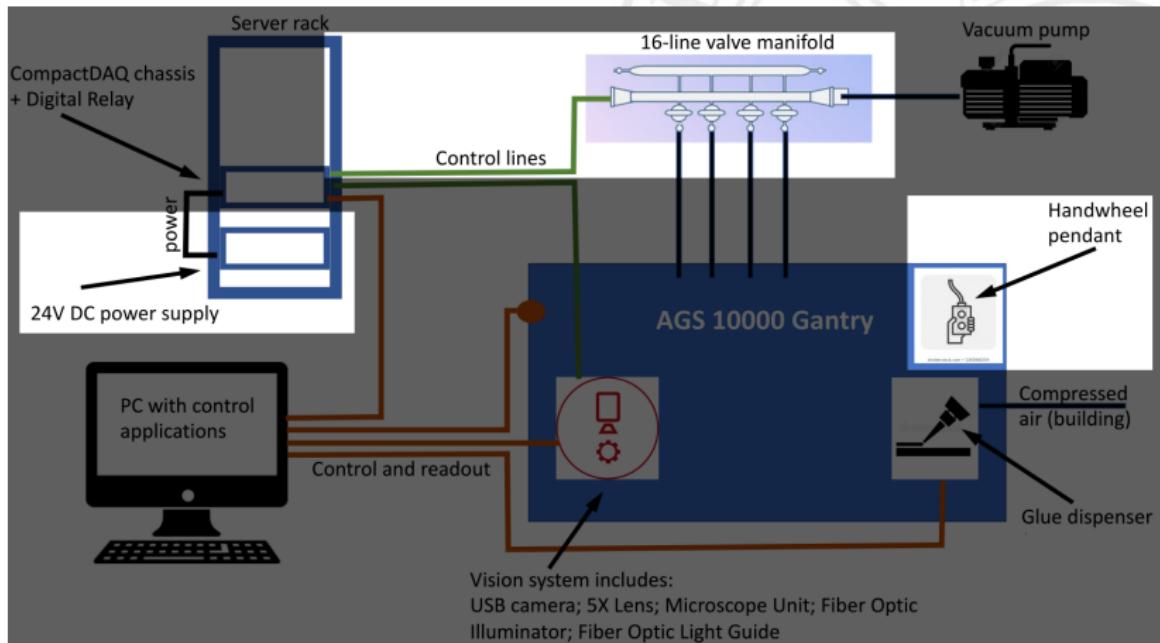
University of Nebraska - Lincoln

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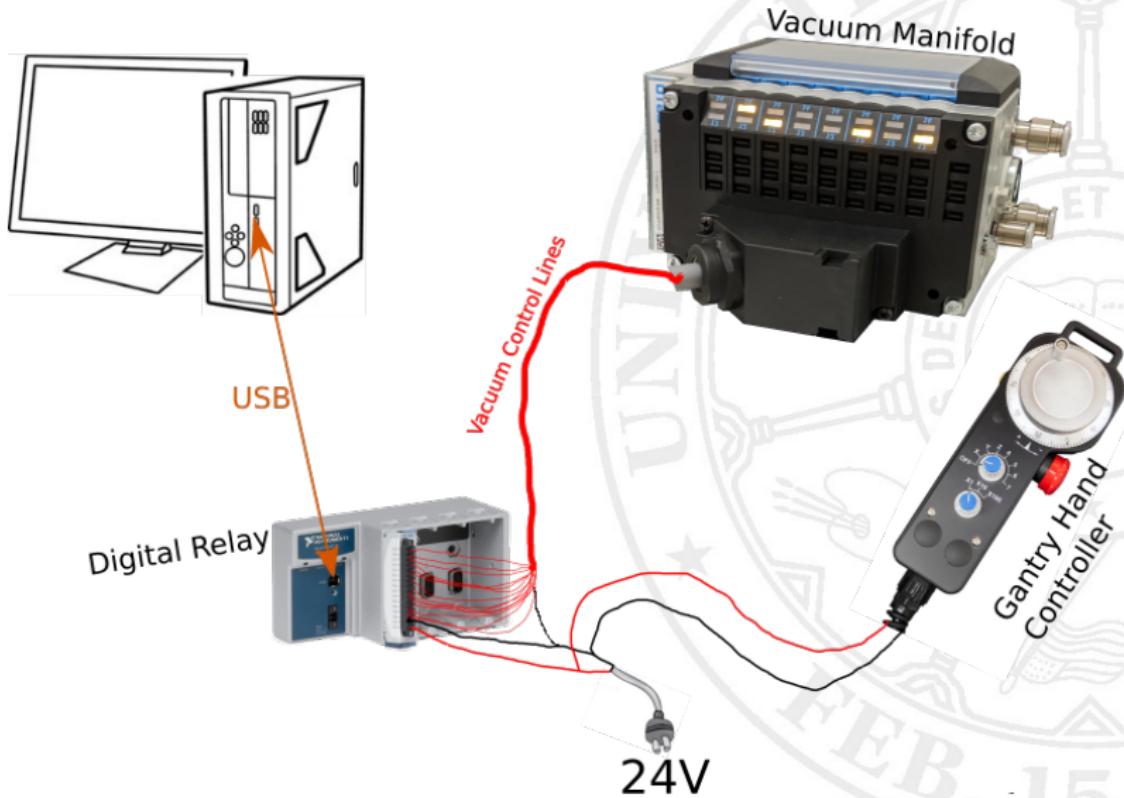


## INTRODUCTION

- Module construction will involve the use of systems based around the Aerotech AGS10000 Gantry
- The system includes components that must be wired together
- Phase I solutions worked, but were not robust or flexible
- Propose a "hub box" that manages the interconnects



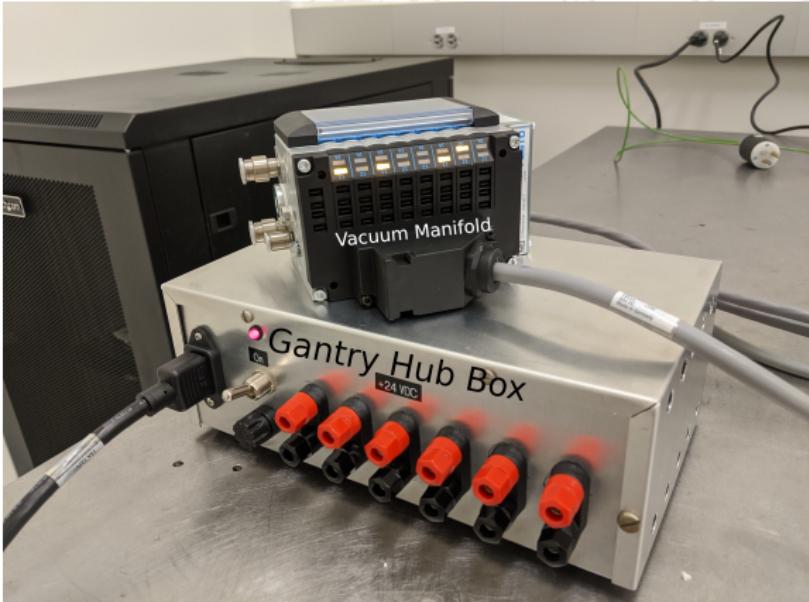
# GANTRY ELECTRONICS OVERVIEW



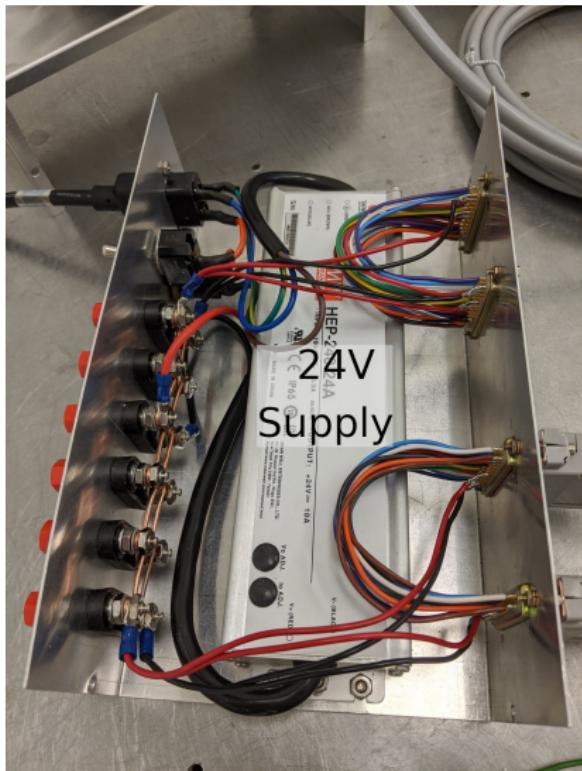
# GANTRY HUB BOX

## Features:

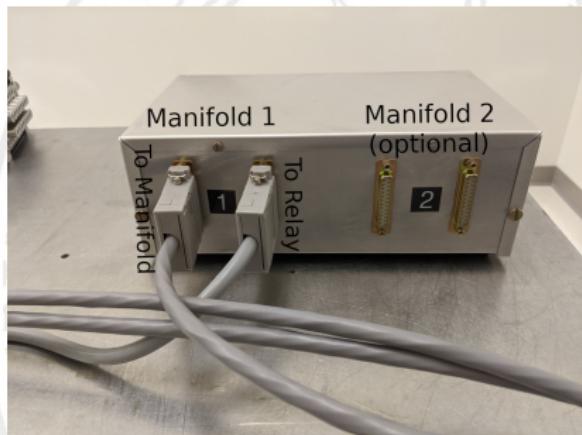
- ▶ Switch with indicator light
- ▶ Safety fuse
- ▶ Standard AC power plug
- ▶ Integrated 24V Supply
- ▶ 6 pairs of 24V banana plugs
- ▶ (back side) D-sub style connectors for manifold hookups
  - ▶ Can support two 16-channel manifolds.



## GANTRY HUB BOX CONT. Interior



## Rear View



- UNL can build similar boxes for other gantry sites
- Cost including parts and labor is roughly \$1000.
- Can also share designs if sites would prefer to build themselves.

# BACKUP

# GANTRY SYSTEM OVERVIEW

