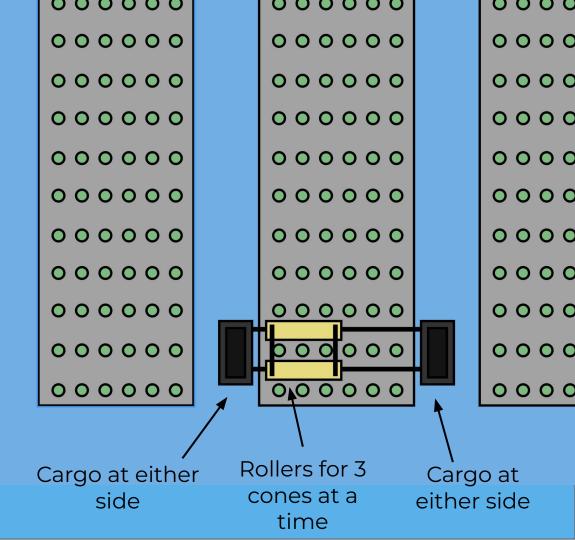
# Salico Descoping Idea

11.7.2024

### Overview Diagram



Real plants are imperfect (tilted, varying sizes)



#### **Modifications To The Farm:**

#1 Remove every other row to create space for alignment and apriltags



**#2** Straighten the cones by adding ribbing



#### **Other Updates**

- **#3** Human-guided repositioning for each row
- #4 Top-down picking approach with multiple passes (most similar to our tests in Hawaii)
- **#5** Each roller will have its own motor
- #6 Roller material will be urethane with a texture latex sleeve

#### **Next Steps (Mech)**

- #1 Finalize the actuation method for each motion (pinching, lowering, lifting)
- #2 Complete architecture of the picking connecting to the collection bins
- #3 Lock new dimensions, after motor lock, design enclosures
- #4 Research and purchase materials for second prototype
- \*\* Target begin fabricating and building new prototype in 2-3 weeks\*\*

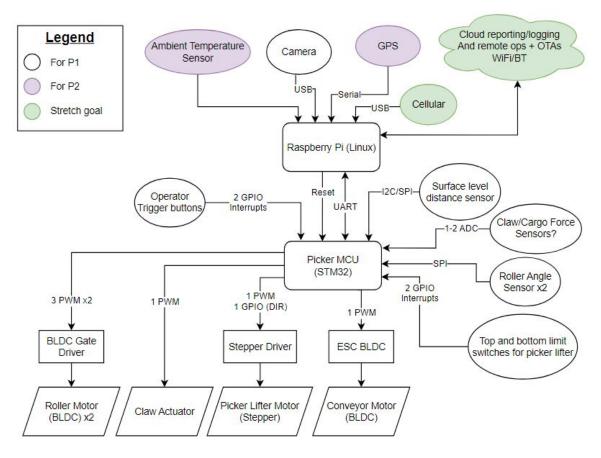
#### **Next Steps (EE)**

#1 Custom Motor Controller (Gerber out Nov 11.)

#2 Salico Controller Module Skeleton (Gerber out Nov 11.)

#3 Preliminary actuator selection for finalized picker / retrieval architecture

#### **System Overview**



## Thank you!