Haivestes

In = Angle Setpoint

(with Position

Roller System 1 Control

Roller System 2 Control

Driver Doystick movement

Limit Switch (2x)

Photo Electric Sensor

Dut = Angle movement

Roller system | movement

Roller system a movement

Angle setpoint

Light

Enable shoot

Angle Coses -

U: HELL MOVE, De Cault

1 = Floor Pick up

3 = Straight up/ Priming Shooter

3. Human Player Loca

J. Omb

5 - Contiolled by Operator

Function: .

1. Pick up Discs From the Floor

2. Transfer to the shooter

3 Release discs to indexer

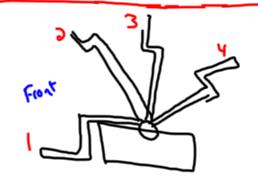
4. Grab Rom human player

5. Spit colored discs on top of pyramid

6 De Jam

7 Store 4 discs

& Diagnostics



Shooter:

Int Enable Indexel

Target Information

Oriver Joystick Input

vision Tracking Enable

Elevation Setpoint

Elevation Position

Out = Shooter Wheel Speed F
Shooter Wheel Speed B
Shooter Aingle movement
Thatexes Output

Elevation Cases:

O: Not Move, default

1 = Controlled by vision tracking

2 = (ontiolled by Operator

-3 - Selpoint 1.45°

4: Set point 2: 24"

5: Set point 3: 13"

Functions :

1. Shoot Frisher at variable speed

2. Change the angle of Elevation

3. Firing

4 Independent Motor Control

S. Diagnostics

6. Target vision apals



Climber:

In - Initiate deploy Deploy rotation Limit switch Indiate Fold up

Driver loystick Movement

- Extension
- Rotation

Extension POT

out: Deployment Rotation Movemed Extension Movement Light (Locked to Pyramid)

Cases

Extension

D: NOT MOUR, DEFAULT

1 - Driver control

2. Extraded Fully

3: Retracted

Deployment

O=Not Move, DeFault

1 = Stored

3: nutalysy/Debloxey

3: Folded

4. Oriver enabled

Functions :

- 1. Latch on to the pole
- 2. FUL -~P
- [3. Extend Secondary Arm and grab

Vision: Processing:

In = Vision Enable
(amera Settings
Camera Refnum

Out = Target array

Cases:

Defined by WPI Robotics library

Functions:

- 1. Arquire Camera Fred
- 2. Pritism Mask to narrow out everything but the thingets
- 3. Obtain Torget inFo