Autonomous command logic for scattering block pyramid

Type: Teleoperator initiated

Function:

Upset and scatter blocks away from vault port area and towards human block loader.

Trigger:

Button

Reason for use:

(1) Clear vault port area for unrestricted turning.
(2) Unstack as many blocks as possible over a flat playing surface.
(3) Place obstacles for opposing alliance by blocking human block loader.

When to Use:

When robot is positioned to the left-side of field at line in front of near switch.

Motion to Program:

(1) Recognize heading of robot.
(2) Rotate so that the back of robot is squarely facing blocks.
(3) Gun drive motors at reverse top speed.
(4) Impact with block pyramid.
(5) Continue to drive through until robot reaches far end of switch.
(6) Rotate counter clockwise 180 degrees.
(7) Back off 12 inches.
(8) Give control back to operator.