Assumptions made
- Button 2 is for emergency stop, and also tr
to idle state
- Any state can transition to emergency stop
- Starts at idle state and ends at idle start
- The cameras and drill work when in idle sta
- When the right pedal is pressed once after
backward state it decelerates backwards

ransitions

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ate
r constant

Accelerating Forward

Left pedal
pressed once

Idle

Right pedal
pressed once

Deaccelerating
Forward

Right pedal held
> 3 seconds

Right pedal
pressed

Constant Forward

Left pedal held
> 3 seconds

Accelerating
backwards

Button 2
pressed

Right pedal held
> 3 seconds

Emergency Stop

Constant Backward

Right pedal
pressed

Deaccelarating
Backward

Button 2
pressed

Speed=0

Idle

16mm Cam

Button 1
pressed

Take picture

pre

Temporiz

Button 1 pressed
for 10 sec

Button 1 pressed
for 5 sec

Button 1 double
pressed

Color camera mode

nera Mode

Button 2
pressed

Button 1
pressed

Button 1
ressed for 5
sec

Button 1 pressed

Button 2
pressed

Drill mode

Button 1
pressed for 5
sec

Temporizer mode

Take picture

zer mode

Button 1
pressed

Button 2
pressed

Toggle on/off

Idle