Control Award Content Sheet

Autonomous program diagrams:

1	Initialize
2	Drive to Beacon
3	Locate White Line
4	Follow White Line
5	Square to Wall
6	Deploy Climbers
7	Drive to Mountain
8	Climb Mountain
9	Stop

Note: When operating on the blue alliance, the paths and operations are a mirror image
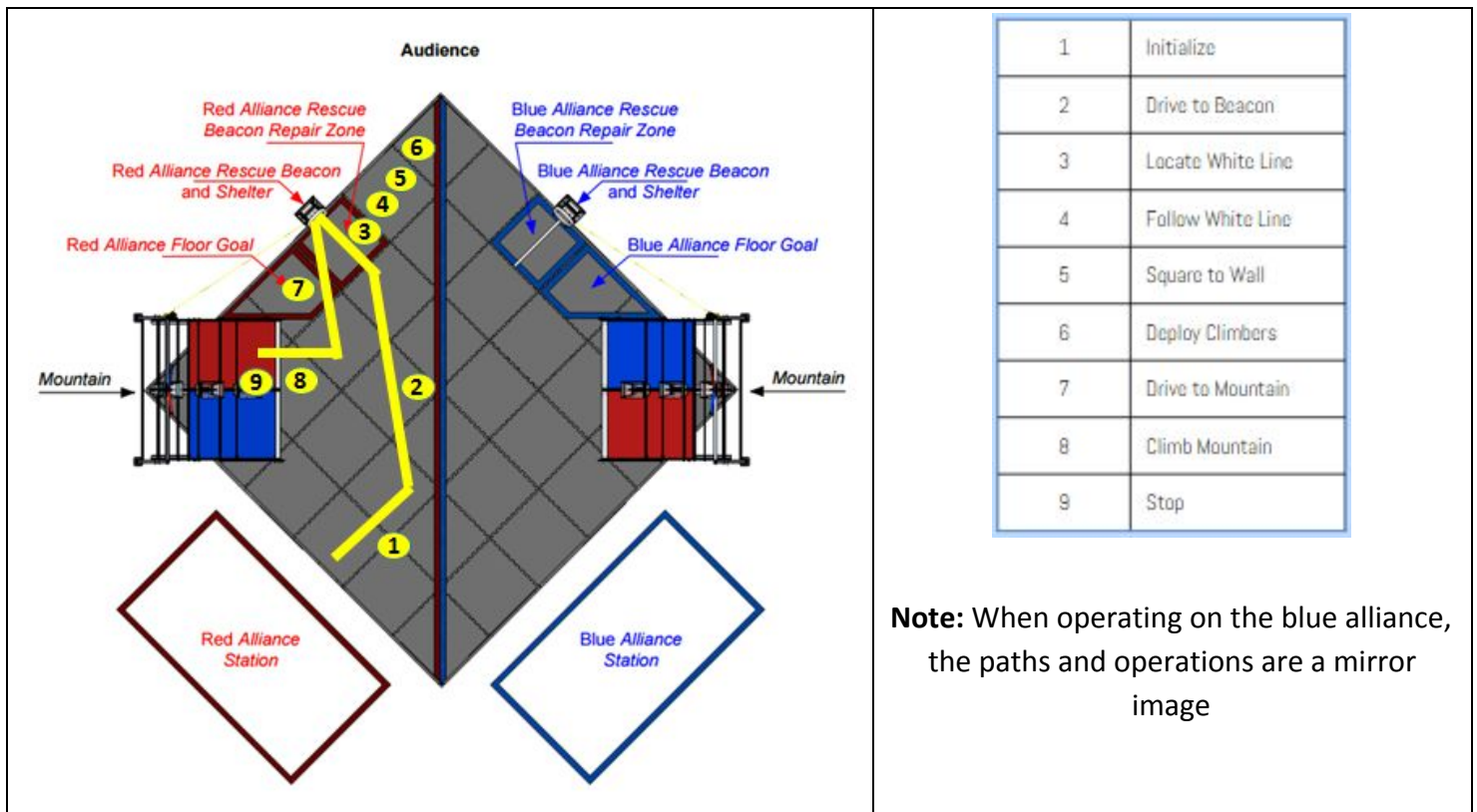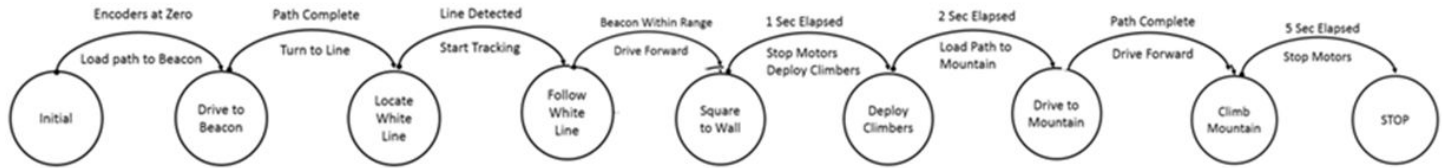
Additional summary information:

FTC AutoCheck - Application that programmatically checks all connected devices and shows status Green or Red; running this app prior to the game significantly improves success rate

State Machine - A programming method used to convey the purpose of the code in a simple manner where the program changes from one state to another through actions

PID Controller - Also known as proportional-integral-derivative controller, it is a control loop feedback mechanism which continuously calculates an error value as the difference between a measured process variable and a desired setpoint and calculates an error parameter to operate