1 Tactical Maneuvers

Vehicle GPS following and obstacle avoidance is enhanced to perform specific kinds of maneuvers. Ideally, the vehicle does not need special modes to perform these maneuvers, but with sensors of limited capability it may be necessary. In any case, it is reasonable at this stage of development to develop special-purpose driver components for each of the maneuvers.

1.1 Drive Through a Gate

The vehicle is driving along and near to a fence (or line of obstacles). It’s GPS course guides it to and through a gate (or gap in the line). Once through the gate, the vehicle resumes driving along the fence.

1.2 Back Up

The vehicle encounters an obstacle in the corridor and decides to veer to one side. It encounters an obstacle blocking its path. It backs up\(^\text{1}\) and tries veering to the other side of the obstacle.

\(^{1}\text{It needs to be confirmed that ERTS has back-up capability and, if so, how to command it to shift to reverse.}\)