



(E1.7) i) Compute Distance Point To Polygon
use compute Distance Point To Segment on
each line segment of Polygon to get for all line segments-consider distances di only if w; = 0, and then find min of dis to Required Value if there is not d; with w; =0.

Then find the min of remaining d;'s (i) compute largent Vector Holygon Compute distance of Point from each Segnent and Point. Consider Segments with w = 0, only. Find min of those. And thus the point on the polygon which is closest. Find perpendicular to the line It point is on segment use its slope for targent.

Only the bug_base algorithm has been implemented. The implementation was found to be successful, the robot travels in the direction of the goal and stops when encounters the obstacle.



