

Torc Self-Driving Capabilities

January 5, 2019

Road conditions	
1	Follow lane lines
2	Navigate on roads without lane lines
3	Navigate on roads with faded/eroded line markings
4	Drive at night on highways
5	Drive at night in urban environments
6	Drive through light rain on highways
7	Drive through heavy rain on highways
8	Drive through light rain in urban environments
9	Drive through heavy rain in urban environments
10	Navigate tunnels
11	Drive over bridges
12	Detect and respond to speed limit changes and speed advisories
13	Detect and respond to access restrictions (one way, no turn, ramps, etc.)
14	Drive during light snowfall
15	Drive during medium snowfall
16	Drive on roads partially covered by snow
Traffic maneuvers	
17	Reduce speed for merging vehicle
18	Adjust speed for lane change
19	Autonomous passing across multiple lanes of traffic
20	Slow or stop for car braking in front
21	Perform high-speed merges
22	Perform low-speed merges
23	Perform car following in stop-and-go traffic
24	Pass slow vehicles
25	Perform U-turns
26	Detect and respond to motorcyclists
27	Detect and respond to bicyclists
28	Lane shift for static object blocking the lane
29	Shift for static obstacle protruding in the lane
30	Detect and respond to construction zones
31	Avoids stopping on train tracks in congested traffic

** List reflects Torc's self-driving system capabilities as of the date listed above
Torc is continuously adding capabilities to the system*

32	Detect and respond to wrong-way drivers	
33	Respond to unexpected maneuvers by other vehicles	
34	Perform turns within traffic	
Intersections		
35	Navigate intersections	
36	Detect and respond to traffic lights	
37	Respond to vehicle breaking rules at traffic lights	
38	Obey traffic light turn arrows	
39	Obey rules at 2-way stops with cross traffic	
40	Obey rules at 3-way stops with cross traffic	
41	Obey rules at 4-way stops with cross traffic	
42	Understand precedence at 4-way stops with cross traffic	
43	Respond to rule breakers at 4-way stops	
44	Take appropriate turn at 4-way stops, but takes action when others defer	
45	Navigate roundabouts/traffic circles	
46	Animal collision avoidance	
47	Obey crosswalks	
48	Maintain safe distance from pedestrians	
49	Detect and respond to pedestrians outside crosswalks	
50	Shift to provide space for pedestrian walking in bike path	
51	Detect and respond to hesitant pedestrian in crosswalk	
General system capabilities		
52	Multi-sensor tracking	
53	Follow local and state driving laws	
54	Detect and respond to component failures	
55	Mitigated component failure through redundancies	
Off-road/Unpaved roads		
56	Avoid holes in road	
57	Navigate rough, rocky terrain	
58	Navigate around objects	
59	Detect hazardous objects	
60	Able to use "follow-me" technology for single vehicle	
61	Able to use "follow-me" technology for fleet of vehicles	
62	Navigate steep, narrow dirt roads	

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