Function list for existing system:

**1.0** Prepare for Mission

**1.1** Select Vehicle

**1.2** Check operating status

**1.2.1** Check vehicle systems

**1.2.2** Check fuel level

**1.2.3** Check ammunition level

**1.3** Load operator – need operator in tank

**1.4** Start engine – turn tank on

**1.5** Obtain mission details – get orders on where to go and what to destroy

**1.5.1** Receive target – details about what to blow up

**1.5.2** Receive location – where to look for target

**2.0** Drive to mission location – go to where targets are

**2.1** Map route to target area – figure out how to get to target area

**2.2** Follow route - to target area until you get there

**3.0** Update Mission from Command Center – if just arrived or no target found

**3.1** Update target – get new target from command

**3.2** Update location – get new location from command

**4.0** Perform Defensive Measures/Maintain situational awareness

**4.1** Scan for threats – search for environmental and enemy hazards

**4.1.1** Gather Sensor Data for Threats

**4.1.2** Interpret Sensor Data for Threats

**4.2** Find safer location – if threats found, determine safer location

**4.3** Map route to safer location

**4.4** Follow route to safer location,

**5.0** Perform Offensive Measures

**5.1** Scan for target – look for targets in mission location

**5.1.1** Gather Sensor Data for Targets

**5.1.2** Interpret Sensor Data for Targets

**5.1** Identify target – if you find something, is it a target

**5.3** Acquire target – if it is a target, aim the turret at target

**5.4** Activate Weapon System – get ready to shoot targets

**5.4.1** Select Weapon System

**5.4.2** Load Weapon

**5.4** Fire weapon – shoot at target

**5.6** Assess damage – did you hit target, is target destroyed

**6.0** Monitor Vehicle Status

**6.1** Detect Impact to Vehicle

**6.2** Assess damage to Vehicle

**6.3** Report Vehicle Status

**7.0** Return to base

**7.1** Find Base Location

**7.2** Drive to Base Location

**8.0** Complete Mission

**8.1** Turn off Engine

**8.2** Unload Operator

**8.3** Perform Maintenance to Vehicle