I.   Abstract

II.   Motivation

III. Sketch of Approach

IV. Concept

1. *3D Design*

2. *Subsystems Model*

      a. Driving&Switching subsystem

      b. Surviving Enviroment&Rescuing subsystem

      c. Smart Visioning subsystem

3. *Platform Independent Model*

V.   Evaluation

1. *Implementation*

      a.Driving

      b.Switching

      c.Obstacle Avoidance

      d.Signal detection

      e.Shortest Path

      f.Smart Visioning system

2. *Simulation*

      a.Hardware Simulation

         1.Switching

         2.Obstacle Avoidance

         3.Signal Detection

         4.Smart Visioning system

      b.Software Simulation

         1.Driving

         2.Shortest Path

         3.Signal Detection

VI. Summary & Outlook