Task	Products
Mechanical modeling of robot structure, drive mechanism, and extinguishing device	
M1. Design 2-3 possible solutions for robot structure and drive mechanism	CAD technical drawings, cardboard models and specifications
M2. Place sensors on each of possible robot structures	Sensor and extinguishing device; substitutes attached to the cardboard models
M3. Design a special extinguishing device for each of possible robot structure solutions	
Sensors and control	
C1. Develop a control method for robot motion along maze hallways with a given distance from its walls	A sensor configuration and control algorithms
C2. Develop a method for detecting the position and orientation of threshold white lines on the maze floor	
C3. Develop a method for detecting obstacles	
C4. Develop a method for detecting fire	
System software	
S1. Develop a navigation program for robot motion from each room to any other room in the maze	Interactive C modules tested on the standard mobile robot
S2. Develop a program for identifying each room of the maze	
S3. Develop a program for avoiding obstacles	
Robot implementation	
I1. Build the robot platform including motors, sensors. and the extinguishing device	A physical robot platform
I2. Adapt the system software modules to the project robot	The Interactive C modules tested on the project robot
I3. Integrate the algorithms of specific robot behaviors into an entire procedure for the contest assignment	Robot system software
Contest presentation	
P1. Provide robust performance of the contest assignment in diverse situations	A reliable robot system
P2. Fashion an aesthetic outward appearance of the robot	An aesthetically fashioned robot