

## CSCI-5448: Project Spring 2016

**Team:** Bo Cao

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**Title:** Robot Path Learning

**Description:** A website that displays a robot in a series of random environments. The user navigates the robot to a predetermined location on the map. This input is used to train in a neural network for path planning. The system will have a interface that will allow an external system to retrieve and insert data. The system will display the robot moving along a learned path.

**Platform/Environment:** Web/Java/Struts/Spring/Hibernate/jQuery

**Programming languages to be used:**

Language	Bo Cao	Fernando Nobre	Zhongzhi Zhang
Java	Expert	Advanced	Beginner
HTML	Expert	Expert	Advanced
CSS	Advanced	Advanced	Advanced
Javascript	Advanced	Advanced	Advanced

**Functionality:**

- Users can sign up
- Users can log in
- Users can log out
- Users can control the robot
- Users can see previous paths created
- Users can add robots
- Users can see robot's state
- Users can remove robots
- Users can add obstacles
- Users can remove obstacles
- System will provide interface for retrieving paths
- System will provide interface for creating paths
- System will provide interface for updating paths
- System can display robot moving along path