

California State University San Bernardino  
School of Computer Science and Engineering

**CSE 595 Independent Study Presentation**

**Date**

June 13, 2016

**Time**

4:30 pm

**Place**

JB-358

**Title**

Autonomous/Obstacle Avoidance Robot

**Student**

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**Advisor**

Dr. Sun

**Abstract**

Robotics is a hot technique in modern time. It has been widely used in various applications.

This independent study is focusing on designing and building an autonomous obstacle avoidance robot. During this independent study course I accomplished on building a mobile autonomous/obstacle avoidance robot using a microprocessor (Arduino) and programming this device to interact live with any obstacle it encounters by using an ultra-sonic sensor while learning the basics of robotic control. In this presentation I will be discussing a certain amount of background information and the methods I took in order to build this robot.