

**California State University San Bernardino
School of Computer Science and Engineering**

Independent Study Presentation

Date:

June 16, 2016

Time:

11:30 AM

Place:

JB 359

Title:

Autonomous Sensing Cart

Students:

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Advisor:

Dr. Sun

Abstract

To design a cart that will house several sensors for a human sensing research project. The goal is for the cart to be able to move around an environment autonomously and be able to avoid obstacles. By having a cart that can move autonomously, we give the sensors a wider range of the environment to sense. In order to accomplish this task, an Arduino micro controller will be programmed to control some DC motors that will allow the cart to move. Ultrasonic ping sensors will also be used in order to detect objects around the environment and avoid them.