

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

**Independent Study Presentation**

**Date& Time**

March 26 at 7:00 PM

**Place**

JB 359

**Title**

Resistor Reader Mobile App

**Student**

Matthew Hanna

**Advisor**

Dr. Arturo Concepcion

**Abstract**

The Resistor Reader project was started in CSE 455 of winter 2014 but was unsuccessful in implementing a working prototype. For this independent study I joined a team from CSE 455 this winter to continue the development of Resistor Reader for the client, Dr. Timothy Usher, Department of Physics. The goal was to be able to identify the color bands of a resistor and calculate its resistance. The platform for this project is Android, as early as SDK 15, and uses OpenCV library for the image processing portion of the project. Topics of the presentation will include technologies, languages, and platforms that were used and there will be a live demo of the working prototype.