**California State University San Bernardino**

**School of Computer Science and Engineering**

**CSE 575 Internship in Computer Science**

**Date:**

**November 26, 2019**

**Time:**

**10:30 a.m.**

**Location:**

**JBH 361**

**Title**

**Divining Rod Mobile App Graphics Display**

**Students:**

**Benjamin Alexander**

**Jose Perez**

**Advisor:**

**Dr. Arturo I Concepcion**

**Internship Abstract**

**Divining Rod is an Android Studio application designed to assist farmers around the world. The application provides its users with the ability to communicate with wireless sensor networks to assist with discovering water tables under the ground and producing a visual representation of this data with contour interpolation graphs. As a result, Divining Rod allows farmers to plant their crops all year round, increasing both production and yield from their respective farm lands. This presentation will follow both Jose Perez and Benjamin Alexander throughout the process of developing the graphics display for the mobile application. This includes client communication and application design throughout the development of Divining Rod’s graphical interface. Additionally, the presentation will include explanations about problems related to contour interpolation graphs and time complexity, as well as implementation of multiple programming languages within Android Studio using Chaquopy.**