

Full Throttle STEM™ Rover: Android App to Display Telemetric Data on a Map

Challenge Problem and Resources



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Gaming Research Integration for Learning Laboratory™ (GRILL™)
Summer 2014

TABLE OF CONTENTS

1.	CHALLENGE PROBLEM: ANDROID APP TO DISPLAY TELEMETRIC DATA ON A MAP	3
1.1.	THE TOOLS	3
1.2.	THE CHALLENGE	3

1. CHALLENGE PROBLEM: ANDROID APP TO DISPLAY TELEMETRIC DATA ON A MAP

Write an Android app to integrate telemetric data onto a Google Map. Place data in the form of different color squares on top of the map; each square should represent associated values of the data. As an example, weather maps will often have rainfall or storm activity represented by different colors overlaid on a map.

1.1. THE TOOLS

In addition to the Android device, tools needed include Google Maps Application Programming Interface (API), Android development software such as Eclipse with the ADT plugin, or Android Studio.

1.2. THE CHALLENGE

Develop an app that creates a series of polygons defined as squares over the target area. The app will determine the color of the polygon based on any data collected (real or mock) within the borders of that area.