

AutoMoe

Progress Presentation 2

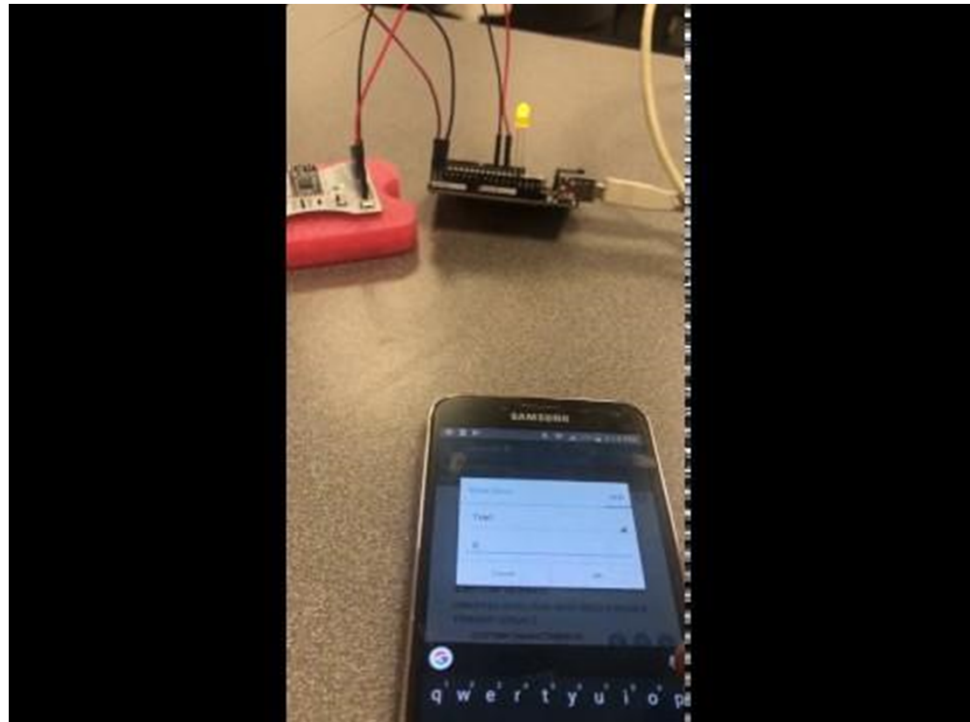
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Lateef Adetona, Tavares Kidd, Collin Scott,
Jordan Lafontant

Milestone Summary

Feb	1	Begin setting up phone UI for GPS	jordan/Collin	Car built
	2	Solder components to breadboards	Lateef/Tavares	
	3	Organize components on RC car	Lateef/Tavares	
	4	Finish assembling car	Lateef/Tavares	

Actual Outcome - Hardware



Code (Android)

```
initialize global TempAddress to ""

when LocationSensor1.LocationChanged
do
  latitude longitude altitude speed
  set CurrentAddressDataLabel.Text to LocationSensor1.CurrentAddress
  set CurrentLat.Text to get latitude
  set CurrentLong.Text to get longitude
  set RememberButton.Enabled to true

when RememberButton.Click
do
  set RememberedAddressData.Text to LocationSensor1.CurrentAddress
  set RememberedLat.Text to LocationSensor1.Latitude
  set RememberedLong.Text to LocationSensor1.Longitude
  call TinyDB1.StoreValue
    tag "Address"
    valueToStore LocationSensor1.CurrentAddress
  call TinyDB1.StoreValue
    tag "Lat"
    valueToStore LocationSensor1.Latitude
  call TinyDB1.StoreValue
    tag "Long"
    valueToStore LocationSensor1.Longitude
  set DirectionsButton.Enabled to true
```

```
when DirectionsButton.Click
do
  set ActivityStarter1.DataUri to join
    "http://maps.google.com/maps?saddr="
    CurrentLat.Text
    " "
    CurrentLong.Text
    "&daddr="
    RememberedLat.Text
    " "
    RememberedLong.Text
  call ActivityStarter1.StartActivity
```

```
when Screen1.Initialize
do
  set global TempAddress to call TinyDB1.GetValue
    tag "address"
    valueIfTagNotThere ""
  if length get global TempAddress > 0
  then
    set RememberedAddressData.Text to get global TempAddress
    set RememberedLat.Text to call TinyDB1.GetValue
      tag "lat"
      valueIfTagNotThere ""
    set RememberedLong.Text to call TinyDB1.GetValue
      tag "long"
      valueIfTagNotThere ""
    set DirectionsButton.Enabled to true
```

Android, Where's My Car?

Your Current Location

Address: unknown

GPS: 0 , 0

Remember My Current Location

Remembered Place

Address: unknown

GPS: 0 , 0

Show Directions From Current to Remembered

- ☐ Display hidden components in Viewer
- ☐ Check to see Preview on Tablet size.

Screen1

Text for Label9

Text for Label1 Text for Label6

Text for Label2 Text for Label3 Text for Label4 Text for

Text for Button1

Text for Label1 Text for Label2

Text for Label3 Text for Label4 Text for Label5 Text for

Text for Button2

Components

- Screen1
 - CurrentHeaderLabel
 - HorizontalArrangement1
 - CurrentAddressLabel
 - CurrentAddressDataL
 - HorizontalArrangement2
 - GPS
 - CurrentLat
 - Comma
 - CurrentLong
 - RememberButton
 - HorizontalArrangement3
 - RememberedAddress
 - RememberedAddress
 - HorizontalArrangement4
 - RememberedGPS
 - RememberedLat
 - RememberedComma
- Rename Delete

Risk Management

- Circuit design for LCD screen doesn't include any use of resistor; could burn out the backlight of LCD

Activity moving forward...

- The next progression step for the group is to integrate additional hardware components via soldering with RC car's motor system.
- Also to implement GPS navigation software on respective hardware components to ensure progress of the RC car's "autonomy".