Possible Algorithm for Landmark Geolocation

1. Get current Latitude and Longitude from GPS.
2. Get current elevation from barometer.
   1. Get atmospheric pressure, , from barometer.
      1. Accuracy depends on sensor, ~0.5m accuracy
      2. If in atmosphere(atm) convert to Pascal(Pa), 1atm = 101325Pa
      3. If in millibar(mb) convert to (Pa), 1mb = 100Pa
   2. Plug pressure into Pressure Equation:
      1. static pressure (Pa) = 101325Pa
      2. standard temperature (K) = 288.15K
      3. standard temperature lapse rate (K/m) = -0.0065K/m
      4. height above sea level (m)
      5. height at bottom of atmospheric layer (m)
      6. universal gas constant: 8.3144598 (J/mol/K)
      7. gravitational acceleration: 9.80665 (m/s2)
      8. molar mass of Earth’s air: 0.0289644 (kg/mol)
   3. Solve for (elevation).
      1. Assume
      2. Highest point on earth (Mount Everest) < 11000m
3. Get phone orientation from JS event: DeviceOrientationEvent.