# Final Year Project – Scope

* Want to answer the questions
* “How can we make roads like junctions or roundabouts safer?”
* “How can we incorporate ADAS systems to ensure better awareness and safety?”
* Use of GPS to map out road => Here developer?
* If car drives onto wrong side of junction / roundabout, Car is signalled through dash / lights etc. and possibly ADAS kicks in to slow car down or pull over.
* GPS possibly shows green line for correct route of road, red for wrong side, possibly orange to show where to look mainly for caution.
* Unsure which virtual environment would be best suited for this right now.
* Car will travel virtually in real time.
* Will possibly pulse area for objects and identify them when found in a certain proximity e.g. “cyclist 150 metres away -> light up a signal or prompt message”
* Green shows direct path on how you can pass safely => south road may be 2 lanes hence 2 lines
* Red shows incorrect way to approach the road.
* Possibility to maybe add the orange features discussed earlier
* Want to possibly differentiate between poles / trees etc.

Rough diagram of virtual test environment example

