Facilitate access to real-time process industry data through the use of Augmented Reality (AR) on mobile devices.

Let’s Talk Design.

- A flowing, easy to use UI with conscious thought to touch input. Visibility in a varied weather conditions is a must[1].
- The Application will need to make use of device local storage to allow access to cached data in the likely[13] event WiFi/3G is not available, one major constraint to the project.
- Another consideration being made is to provide an adapter class; allowing the interaction of other systems – such as Sabisu Actions.
- The system will make use of the decorator Gang of Four pattern[15]. This will produce greater interoperability and make the application easier for future maintenance.

Augment This.

- Consumer research shows positive reactions to AR effectiveness[1], with the AR Market showing an exponential growth to support this[2].
- AR has been proven to be a highly efficient method for inspection tasks[3][4][5], increasing productivity and safety.

Going Native... Going Android.

- Limited HTML 5 resource and not all mobile browsers support the available resources.
  - Unable to attain bearing through position.cord when device is stationary[6].
  - Rich Native support, allowing full access to device sensors – especially locational sensors[7][8][9].
- The scope of this project can only support one mobile OS.
- Android has the largest market share at 79.3% (2Q13)[12].
- SABIC – a customer of Sabisu is currently running a major project to provide manufacturing teams with Android tablets[13]. Setting a minimal requirement for the app to run on an Android Tablet.

Miru aims to provide a toolkit to enhance human perception and spatial awareness in process industry environments increasing safety, efficiency and accuracy. The project has a short time scope, but through good design and employment of the DSDM agile model, production of an MVP is expected to occur late February 2014; with implementation on track, to begin December 2013.
Notes

Issues.

There have been no legal, social or ethical issues affecting this project. The design phase has taken a little longer than was expected due to over estimating my knowledge regarding OO principles and class interaction. However due to the analysis phase being finished earlier than expected the project is still on track.

Professional Skills.

Working in a technical field requires you to deliver concise, research driven work. Having a positive work ethic and the ability to produce reliable, consistent results will be major positives to any potential employment.

References.

16. Benchmark test of the Nitro JS Engine vs. C++ Low Level Virtual Machine on iPhone 4S.