



Project Title: mLearning for Practice Skills: Using augmented reality to enhance lab and clinical teaching

Project Summary: This project seeks funding for a mobile learning or mLearning (Crescente & Lee, 2011) project to develop and evaluate augmented reality resources to support student learning in clinical skills and lab based education. Augmented reality (AR) is a technology that turns mobile devices such as smartphones into visual augmentation devices to virtually display and superimpose digital content in context with real-world objects. We will create virtual point of interest (POI) tags and AR content for the freely available “Layar” application, and use the Layar development tools to create and host the AR content. Hoppala Geo-Augmentation Web Services may also be used to add supplementary geo-location tagging data). AR resources will be created for two educational applications: 1) Tagging of clinical lab equipment for use by students in clinical skills lab-based teaching, and 2) Tagging of items for use in a “search and identify” activity as a part of a problem based learning session exploring a particular clinical scenario. The initial target student groups for these activities will be undergraduate nursing students, but later inclusion of other health professional students is envisioned.