

MAR-drone, Developing AR-Drone Quadrocopter Control Application for MeeGo with Qt Mobility and Qt Components

Kate Alhola
Nokia
Helsinki, Finland
Kate.alhola@nokia.com

Abstract

Ar-Drone is a WiFi controlled flying quadrocopter with with first person vision camera and augmented stability. Ar-drone can be used flying for fun or playing augmented reality games. Original Ar-drone application was written for iPhone. For porting there is open source C language interface library.

Mardrone is a showcase application how application can be written with Qt components UI and Qt mobility. It also demonstrates how to interface C/C++ application logic to Qml/Qt components UI, how to implement real time control for the drone and real time video feed from the drone.

Porting the application UI for MeeGo was very easy with the Qt components and succeeded in a relatively short time. Interfacing with the Ar-drone was super easy with the Qt Mobility. The end result functions similarly than the iPad app.