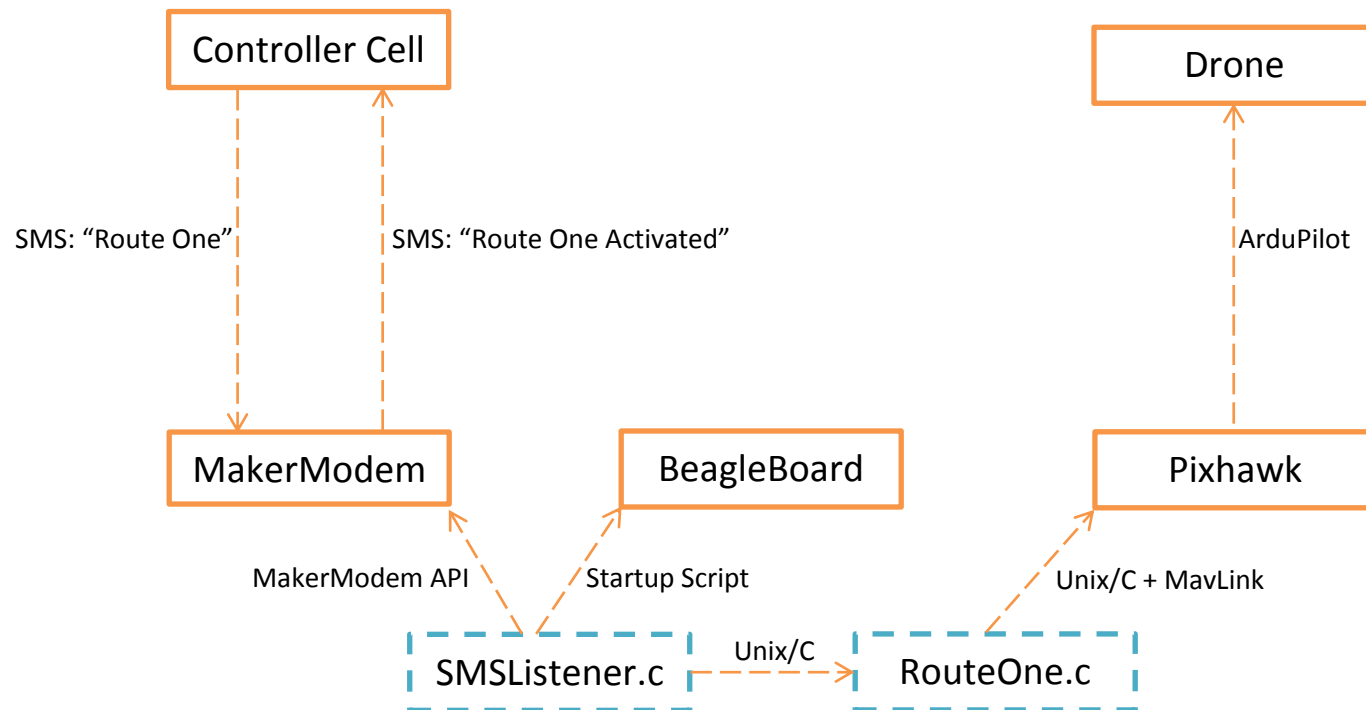


## SMS Architecture: AUTO Mode using Verizon Wireless



The SMS AUTO Mode functionality requires first that a prefigured route is installed on the Drone using the Mission Planner software. This route is stored on the Pixhawk and is set by default to be executed upon a hardware controller signal. This default setting is overridden using MAV\_CMD\_MISSION\_START which enables the flight plan to be executed upon entering AUTO mode without the need for a hardware controller. Once the message from the Controller Cell "Route One" is picked up by SMSListener, RouteOne is activated which acquires the heartbeat of the drone through the Pixhawk, and sends a message to the Pixhawk to take the drone out of the default STABILIZE mode and into AUTO mode at which point the prefigured flight plan is executed automatically.