Drone AED Project - Phase II:
Setting up the Drone Unmanned Aerial Vehicle (UAV) AED Unit.

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Setting up Unmanned Aerial Vehicle Unit:

According to current aviation safety management department regulations - The Civil Aviation Authority of Thailand (CAAT), UAV in the operation needs to register to the UAV databases. Most popular UAV models in Thailand are Drone for filming – photography purposes. In order to use UAV carry package or container, proposal for the operation should submitted to CAAT at least 90 days before the flight date. Other mandatory documents are the detailed flight path, safety operation plan etc. If the flight path are in 9 kilometres from local airport. The permission documents from the airport is needed. In this study, Fling used Foxtech GAIA 120 UAV in the operation and have to declare take-off weight when not carry , when carry the battery without payload , and with payload. This UAV operated automatically under programming with backup pilot for manual control in case of accidents. The visual line of sight must follow the regulation documents from CAAT.

Choosing AED Unit:
Due to carrying weight limitation, the AED model using in this study is HeartSine Samaritan PAD model SAM350P. The dimension of device is 20cm x 18.4cm x 4.8cm and weight 1.2 kilogram with battery pack. The battery package must be uninstalled before flight in order to prevent the explosion in case of crash landing. Type of Battery is Lithium Manganese dioxide 18 v. which low chance of explosion in case of accidentally crash landing.

Flight path, Drone take-off location, Drone landing location must be reported. Drone carrier box also need certificate of drop test. Drone must not fly over building or people, so fly over shore line is the best option.