



IF YOU WERE AN **ENGINEER** WHAT WOULD YOU DO?®

South West England Leaders Award 2019
 Winner, Year 4

Emergency Signalling Device

My Engineering Design
Emergency signalling device (ESD)
 A device to help the emergency services communicate with other drivers.

Design Brief
 My Uncle is a Firefighter so I asked him if he ever faced any problems at work. He told me that when they are driving to an emergency, some people panic in their cars when they hear the sirens so they freeze in the middle of the road. It can be difficult to communicate with other drivers and this adds time to their journey which can risk lives.

He wanted a device to help people by signalling to them where to go so that they don't stop in the middle of the road or pull over opposite an island, so that the engine can't get through. My device could be fitted to the front of a fire engine, ambulance and police car.

When people hear the sirens and look in their mirror to see where the noise is coming from, they will see the lights on the front of the emergency vehicle telling them where to go. If someone gets stuck, the passenger in the emergency vehicle could change the instruction by using the connected control panel.

High vis background (Plastic)

Pull over to the right.

Control panel used by the passenger in the emergency vehicle to give instructions and light up arrows.

Move forward then pull over - can be lit up with a left or right arrow.

Pull over to the left. (Red lit arrows)

Name: Finley Strange
 Gender: Male
 School name: Trinity CE Primary School
 Year group: Year 4
 Which engineer inspired you? Mr J. Hunter
 From which company? NVIDIA

The 'Emergency Signalling Device' design aids emergency services by passing traffic. The invention tells people where to pull over, using indicators so drivers will not stop in the middle of the road.