**Transcript**

***Robert Ross – Catadioptric Mobile Image Mosaicing for Vehicle Undercarriges***

My research is basically about using robots to search people’s cars, particularly underneath their cars, to see if there are any explosives under there. The idea is being able to do it without moving the cars and without getting actually close to the cars, so it’s a safety matter as well.

The key outcome that I would like to achieve for this research is to be able to scan the undercarriage of a car without going anywhere near it and to provide security operators a complete map of what the car looks like underneath so that they can identify any explosives or contraband devices underneath the vehicle.

As to how this research might impact the community there’s lots of areas around the world from Northern Ireland to Spain where there’s security concerns with terrorism and car bombings and the like so the idea behind this research is to identify these car bombings before they occur and protect either political dignitaries or business leaders from getting assassinated from car bombings.