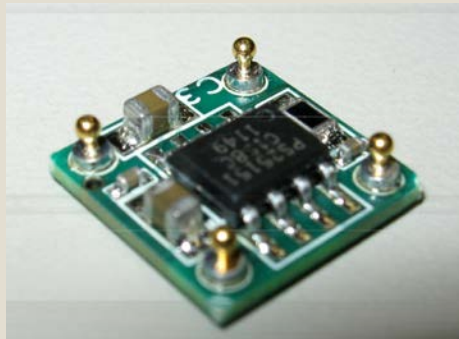


Problem / Question	Project Aim	Expected Results
<p>Current movement detection sensors are easily easy interfered by unwanted objects, blocked by obstacles and it has limitations.</p> <p>Why we can build a powerful sensor that overcome all the existing drawbacks and bring a better future for security and safely sectors.</p>	<p>Build a sensing system for movement measurement use electronic potential sensors.</p>	<p>Detect spatial potential, electric field.</p> <p>Monitoring electric field disturbance.</p> <p>Record the data for further analysis.</p> <p>All these cause by large dielectric object move through the local electric field, the dielectric objects will interference the electric field.</p>

Existing Sensing Device	EPIC sensor	Procedure			
<p>The existing passive sensing technology have been used for example:</p> <p>Ultrasonic sensor</p> <p>PIR-Pyroelectric Infrared Sensor,</p> <p>Infrared sensor</p>	<p>The electronic potential sensor or the EPIC sensor.</p> <p>Ultra High Impedance Movement Sensor</p> <p>Produce by Plessey Semiconductors</p>	Step 1	Step 2	Step 3	Step 4
		Research review Find the existing technology	Plan And Pre-work e.g. How to use EPIC sensor	Implementation Test Verification Modification	Present a report



Contact

BingQian YAN

by2g14@soton.ac.uk

University of Southampton