

Safe Care Guardian

 **Lee Kuan Yew**

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Technology Award

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A Silent Watch, A Lifeline Home

With more elderly in Singapore living alone due to smaller families, many lack daily support, raising concerns about unnoticed emergencies.

The SafeCare Guardian System addresses this by passively monitoring inactivity using PIR and Microwave sensors, sending alerts to caregivers via email or Telegram for prompt action.

Innovators' Inspiration

"During a visit to an Active Ageing Centre, we observed that many elderly individuals were living alone, which raised concerns about their wellbeing. Reading about seniors dying alone highlighted the possibility of help not arriving in time. We wanted to create something that could discreetly monitor them, so their families would not have to constantly worry and would be alerted if something was wrong. Ultimately, it is about ensuring their safety and giving their loved ones a peace of mind."

– Nur Syanaz Elizda Binte Yasser Araffat

What's So Special?

- The system monitors activity without requiring any interaction from the user, respecting their independence and privacy.
- It is designed to be affordable, with low hardware costs and minimal recurring fees, making it accessible to a wide range of users and their families.
- Its two-factor motion detection with both PIR and Microwave Human Radar sensors significantly enhances accuracy and minimises false alerts, while multiple-channels alerts via email and Telegram, ensure that caregivers and loved ones are promptly informed.
- The system is also highly user-friendly and scalable as its core technology can be adapted in various applications, such as remote security monitoring and smart home energy management.