

Smart Walking Cane

- Members:

Pin-Ying Wu (Student no: 37723788)

Kuo-Wei Michael Chiao (Student no:17365926)

- Project description:

Our goal is to make a smart walking cane that performs fall detection and send alert text messages when fall is detected.

In our project, we use the SparkFun sensors to detect the fall movement of the user and send related data to the cloud platform. Once the cloud platform has received the data of fall movement, it will then send an alert text message that contains information about the fall movement.

- Wireless Protocol: Wi-Fi

- Architecture: 2 (Sensor-Cloud)

- Cloud service provider: Microsoft Azure

- Required Components:

Detection	Component (Quantity)
Heart Rate	SparkFun Particle Sensor Breakout (1)
Movement	SparkFun 9DoF Sensor Stick (1)