

# Gerontechnology Lab Equipment at Monash Malaysia



## Age Simulation Suit

A wearable suit that simulates the various common bodily ailments that come with old age.



## Touchscreen TV

Showcase an in-housed developed application that highlights renowned actors, sportsman and singers in a Malaysian context. Aims to stimulate older adult's memory.



## Prototype Devices

A display of various prototype devices either being currently developed or are seeking investment.



## Smartphone Home System

A gerontologically designed home system to control electronic devices, interfaced with an everyday smartphone and set-top boxes.



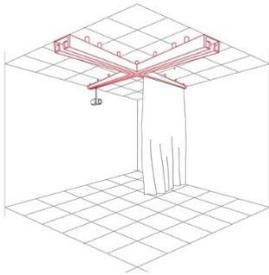
## Ergonomic Forearm Supportive Walking Stick

Specially designed to provide additional support to the forearm.



## Stand-up Recliner Chair

A sofa chair with motors that allow it to unfold and tilt to an upright position to assist users to their feet and when sitting back down again.



## Four-way Ceiling Rail

The Lab can be effectively partitioned into four separate areas/stations with the use of four-way, ceiling-railed curtains.



## Workstation

A dual monitor desktop setup for use by researchers.



## Smartwatch

A computerized wristwatch with built-in heart rate sensor. It allows users to track their fitness and activity level with coaching advice to maintain a healthy lifestyle.



## Digital Weight Scale and Height Rod

An electronic weight monitor with height rod that allows a quick BMI check.



## Blood Pressure Monitor

Basic blood pressure monitor for blood pressure and heartbeat check at Health Station.



## Health Tracking Band

Health tracking band that is able to track steps, distance walked, sleeping patterns, water consumed and nutritional intake.



## Health Monitor

All in one health monitor that is used to measure body weight, body temperature, blood glucose, blood oxygen saturation, lung functions (spirometry) and heart functions (ECG).



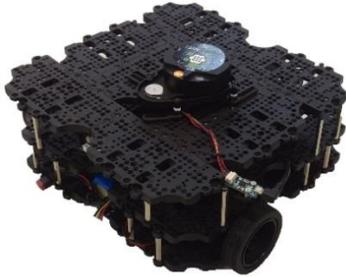
## Ophthalmoscope

For eye examination. It is use to detects and evaluate symptoms of various retinal diseases



## Soft Service Robot (Ubbo Open Source Telepresence Robot)

A human-size tele-operated mobile robot platform which is integrated with soft robotic gripper to assist users such as care givers and older people.



## Turtlebot 3 Research Robot Platform

A modular autonomous mobile robotic platform. It can also be integrated with soft gripper or controlled by brain-machine interface.



## Brain machine interface (EMOTIV EPOC+ 14 Channel Mobile EEG)

A brain machine interface for controlling robot by brain, already integrated with a casual robotic arm made of hard materials and will be integrated with soft robotic arm.



## Laevo Exoskeleton LV2.56-0220

The Laevo is a wearable chest and back support that adapts to every posture. The Laevo transfers force from the rest to the thighs.



## EksoWorks General Configuration V-1.0-0295

This is an upper body exoskeleton that elevates and supports a worker's arms to assist them with tasks ranging from chest height to overhead.