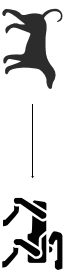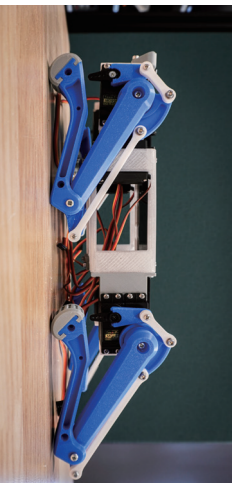# Hardware

Inspired by the form and movement of a real dog, the K-9+ has lifelike movement and natural interactions. Equipped with a raspberry pi running sophisticated control software and computer vision, it can follow you and motivate a healthier lifestyle.

Quadruped Design

The K-9+ features a quadruped design with 10 degrees of freedom, enabling smooth and realistic movement. This advanced structure offers excellent stability, allowing it to easily navigate various terrains.

About Us

We are a robotics technologies research group founded by six Imperial College London Engineers with the aim of helping others and giving back to the society.

Contact Us

Address:
Imperial College London
South Kensington
SW7 2BX

Website:
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GitHub:
https://github.com/ydclzby/ZMS_K9-

Designed by
KRRISH JAIN, WILLIAM HO, CHENGLIN SUN,
RYUSEI KINOSAKI, QIDONG ZHOU & BOYAN ZHANG

K-9+
ROBOTIC DOG

caring
friendly
intelligent

Abstract

Powered by the advanced WatsonX AI Assistant, the K-9+ responds seamlessly to various voice commands, offering a truly interactive experience.

Our Software

Start Program

↓

Command

- News → Search & play news
- Music → Search & play music
- Podcast → New / Resume

Pause / Quit

Music

♩

Using API technology, the K-9+ can play music from any genre you desire, setting the perfect mood for any occasion.

Podcasts

The K-9+ can search for and play podcasts on any topic of interest. It remembers where you left off, ensuring you can easily resume listening without missing a beat.

News

🌍

Stay informed with real-time updates on current events. The K9+ delivers the latest news, keeping you connected and informed at all times.
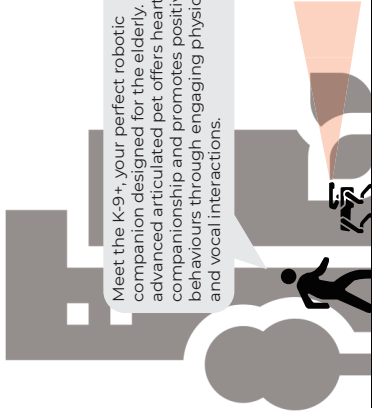

Our Mission

Our mission is to address the pervasive issue of elderly loneliness, a challenge affecting over 2 million seniors in the uk who live alone.

For many, having a pet as companion can help combat loneliness and depression. However, this is often hindered by health or financial constraints.

Meet the K-9+, your perfect robotic companion designed for the elderly. This advanced articulated pet offers heartfelt companionship and promotes positive behaviours through engaging physical and vocal interactions.