COSIMA´24

Participants

Team:	**Electronic Stethoscope for Enhanced Medical Care Progress for medical auscultation**

E-steth is an advanced electronic stethoscope designed to revolutionize medical auscultation. E-steth's superior sound quality allows medical professionals to hear heart, lung and other body sounds with greater clarity and accuracy than conventional acoustic stethoscopes. This enhanced auscultation capability is designed to improve diagnostic accuracy for a variety of conditions, including heart and lung disease. In addition, the E-steth supports remote auscultation, enabling real-time monitoring of patients' heart and lung sounds remotely, which is particularly beneficial for telemedicine and remote patient monitoring applications.

University:	Hamburg University of Technology Prof. Khiem Trieu E-7 Microsystem technology Eissendorfer Str. 42 21073 Hamburg

Team:	**Green Facade Solution: Intelligent Flower Boxes**

The project is dedicated to the desire - to enable more green space in cities

University:	Würzburg Schweinfurt University of Applied Sciences Mr. Fabian Dax Ignaz-Schön-Straße 11 97421 Schweinfurt

Team:	**LAMBDA**
	Lifeline Ambulatory Monitoring Bed & Diagnostic Assessment

The project introduces a stretcher equipped with radar and piezoelectric sensors to precisely measure vital signs.

University:	Albert-Ludwigs-University Freiburg
	Institute of Computer Science
	Intelligent Embedded Systems Lab
	Prof. Oliver Amft
	Georges-Köhler-Allee 302
	79110 Freiburg

Team:	**myzelion**

This project offers a simple solution to provide your plants with optimum care. The sensor system records the most important parameters of your plants and gives you personalized care instructions. So you can relax and look after your houseplants, balcony box or even vegetable garden without having to constantly guess what your plants need.

University:	University of Ulm
	Prof. Dr. Christian Waldschmidt
	Albert-Einstein-Allee 41
	89081 Ulm

Team:	**PillPal**

An intelligent medication distribution system that is able to dispense the desired medication at the right time and monitor the patient's vital signs.

University:	Chair of Design Automation
	Prof. Dr.-Ing. Ulf Schlichtmann
	Supervisor: Yushen Zhang
	yushen.zhang@tum.de
	Phone: +49 176 72106929
	Technical University of Munich

Arcisstr. 21
80333 Munich

Team: **SmartBagEco**

Innovative ecosystem for inpatient and outpatient care by measuring the fill level of medical bags.

University: Kaiserslautern
FB IMST & BW
Prof. Dr. Antoni Picard
Amerikastr. 1
66482 Zweibrücken

Team: **SmartCart**

An AI assistance device that enables visually impaired people to shop independently and safely.

University: Baden-Wuerttemberg Cooperative State University Stuttgart
Prof. Dr. Mattias Drüppel
Lerchenstr. 1
70174 Stuttgart

Team: **SonoVision**

The project is a pair of smart glasses for the hearing-impaired - which can be used to visually locate the source of noise. Information on the direction and danger level is shown on a display in the glasses.

University: Chair of Design Automation
Prof. Dr.-Ing. Ulf Schlichtmann
Supervisor: Yushen Zhang
yushen.zhang@tum.de
Phone: +49 176 72106929
Technical University of Munich
Arcisstr. 21
80333 Munich

Team: **TechBowl**

An intelligent feeding bowl for dogs and cats, with intelligently controlled food dispensing and reliable sensors to ensure the water quality so that the animal's well-being is guaranteed at all times.

University: Ruhr-Universität Bochum
              Chair of Microsystems Technology
              Prof. Dr. Martin Hoffmann
              Universitätsstr. 150
              44801 Bochum