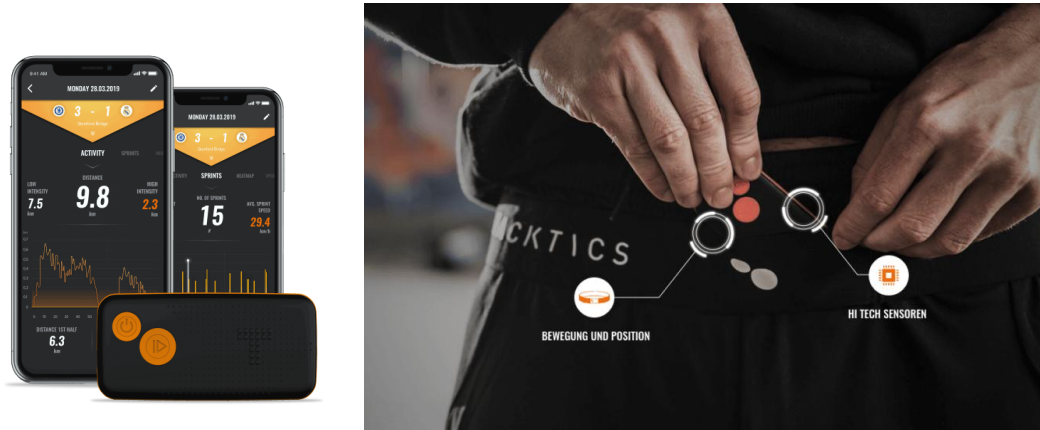


TRACKTICS Tracker

The TRACKTICS Tracker is a wearable device designed for football players, offering comprehensive tracking and analytics. This device captures detailed performance metrics to help athletes optimize their training and gameplay. The project involved the development of both hardware and firmware.



Hardware Development:

- Designed and developed the PCB layout and schematic.
- Implemented antenna design for wireless communication.
- Developed USB 2.0 interface for data transfer and device connectivity.

Firmware Development:

- Developed firmware using STM32 microcontrollers.
- Implemented real-time operating system (FreeRTOS) for efficient task management.

Applications:

- Athlete training optimization
- Real-time tracking
- Health and fitness monitoring

Technologies Used:

- STM32
- Development Environment: Eclipse
- ST-Link Debugger
- FreeRTOS
- WiFi, Bluetooth, GPS
- USB 2.0