



# KEWAZO

Are you interested in **new technologies, innovation** and **robotics**? Are you looking for a challenging project study and want to join our young startup team?

## About KEWAZO

We develop a smart robotic lift that provides an efficient, cost-efficient and safe transportation of scaffolding parts during scaffolding assembly. We offer the world's 1st smart on-site scaffolding transportation system, which operates autonomously, optimizing scaffolding assembly.

## Forschungspraxis (FP): Safety-grade wireless communication technology suitable for construction sites

Our robotic system requires user inputs made on a wearable control device, which will send control commands to the robot. One of such commands needs to be an emergency stop command. This creates additional reliability requirements to the system in terms of fault (in-)tolerance, as it needs to comply to safety requirements, e.g. of ISO 13850.

The following tasks are planned for this FP:

- Compile a list of requirements for a safety-grade wireless communication system based on industrial standards, intended functional parameters, environmental conditions
- Identify and research state of the art wireless technologies
- Based on the compiled requirements, evaluate the identified technologies to select a suitable solution
- Create a basic proof-of-concept prototype (sender - receiver) and perform basic tests to confirm environmental suitability

## Why KEWAZO?

KEWAZO has a very diverse and international team. We offer you not only creative working environment, flexible working organization and a free access to *MakerSpace* but also a freedom to take responsibility and extremely high learning curve. Join us and become a part of our young startup team!

## Other Topics

In case you liked the company profile but would like to have a different topic please get in touch with us directly to discuss an opportunity to perform your FP on another topics that is currently in progress.

## Your Profile

You are:

- A person with a background in Informatics / Electrical Engineering or another related field
- A person with high interest in hardware development
- A team player that enjoys a creative environment

## Sounds interesting?

Please send us your CV

## Your contact person

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