



Technische Hochschule Ingolstadt

Write your Bachelor/Master Thesis with us!

Development of a UAV Control Interface of Remote Operation for the Emergency Services

Dispatchers in the Integrated Dispatch Center (Integrierte Leitstelle, ILS) play a crucial role in supporting incident commanders during emergency operations. Our solution addresses the challenges of low situational awareness in the control room and in the field by providing highly automated UAVs equipped with advanced computer vision and use-case specific features. These UAVs offer real-time, comprehensive views of the situation, significantly improving the dispatcher's ability to provide accurate and timely information to the incident commander.

Your tasks

- Front-End web development for the UAV control interface.
- Develop interactive elements such as real-time maps, status indicators, and control panels.
- Create a training simulation environment within the interface.
- Conduct prototype evaluation with users.

Your Profil

- Studying Computer Science/Engineering (HCI, HMI)
- Interest in UAV operation
- Experience in HTML, CSS and Typescript
- Experience in Interface Design (Optional)

Why Join Us?

As a student, you have the opportunity to contribute to this groundbreaking technology. Your work will not only advance your academic and professional career but also play a crucial role in improving public safety and emergency response.

Kontakt

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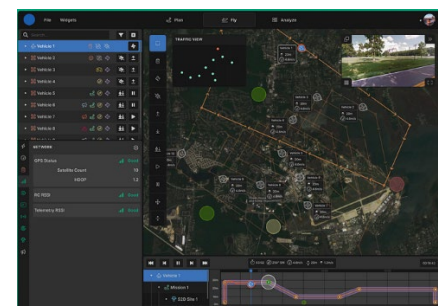


Figure 1: UAS Ground Control Station, Rayn Arthur, Dribbble



Figure 2: UAV in emergency response, Konstantin Tronin, Shutterstock