Analysis of hardware requirements for a system to control a sailboat

Dependable Systems - Dirk Nowotka

Project Description

Recently, as part of a master thesis, a system with two cameras and a Raspberry Pi was developed, which is attached to the mast of a sailboat and intelligently processes the images. During the development it became apparent that the performance of the Pi is not sufficient to realize the intended processing in real time. Furthermore, an improvement of the overall system by increasing the number of cameras seems reasonable. In this thesis the design of a suitable system for the aforementioned intelligent processing shall take place. Since the application on a sailboat has certain spatial limitations, a test setup of the designed system is also carried out within the scope of this thesis. For a realistic impression of the present circumstances it is possible (and desired) to visit the stored sailboat.

Applicable For

- Bachelorstudents
- Masterstudents

Skillset

- System Integration
- Hardware Skills

Keywords

- Resource Planning
- System Integration

Contact

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