Bachelor or Master Thesis
Sensor data link system from an UAV to the ground

A robust and high bandwidth data link provides continuous transmission of sensor data from an robot/UAV to a ground station. Besides the hardware selection; the data compression, the protocol and the secure transmission are key features.

Tasks
• Theoretical research in data transmission
• Design of a communication system
• Data stream encryption authentication
• Hardware implementation
• System verification and flight tests

Good to know
C++, encryption knowledge, data transmission protocols

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