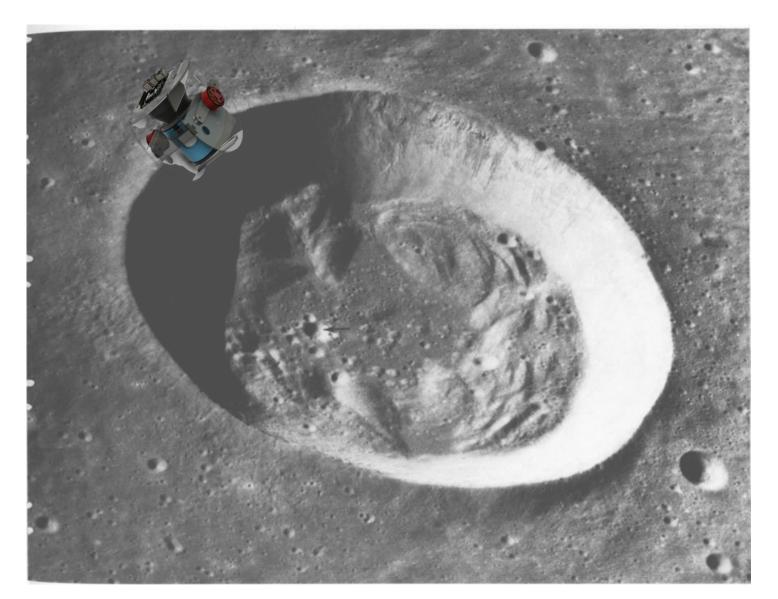


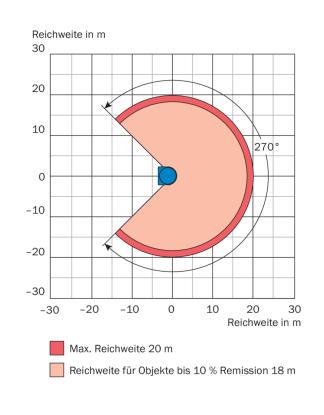
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- Sick LMS 100 1000
- 270° FOV in a 2D plane
- max. range 20m





Raspberry PI 3

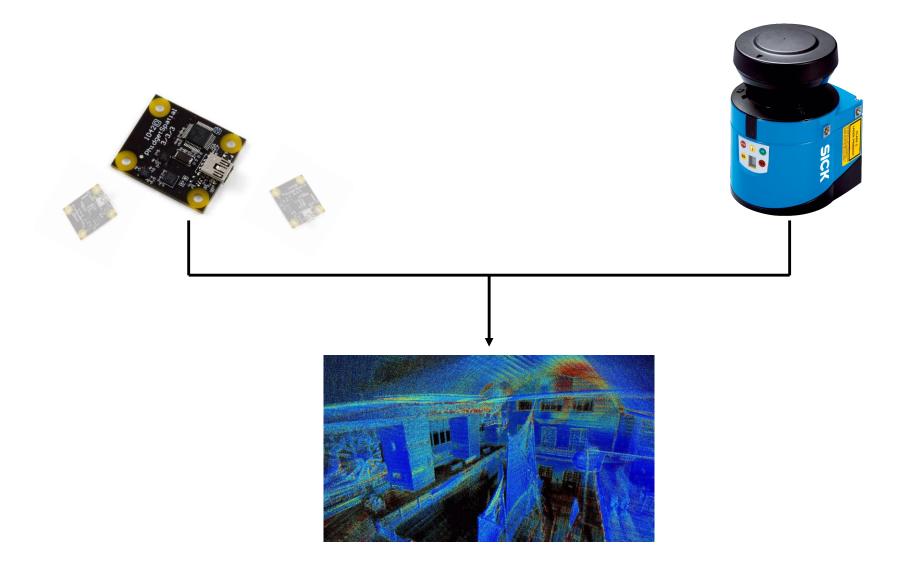


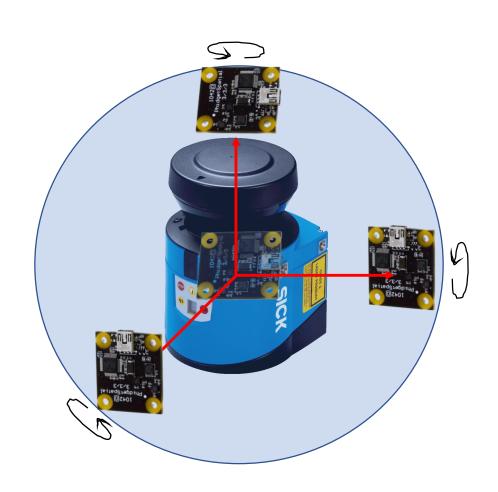
Robot Operating System

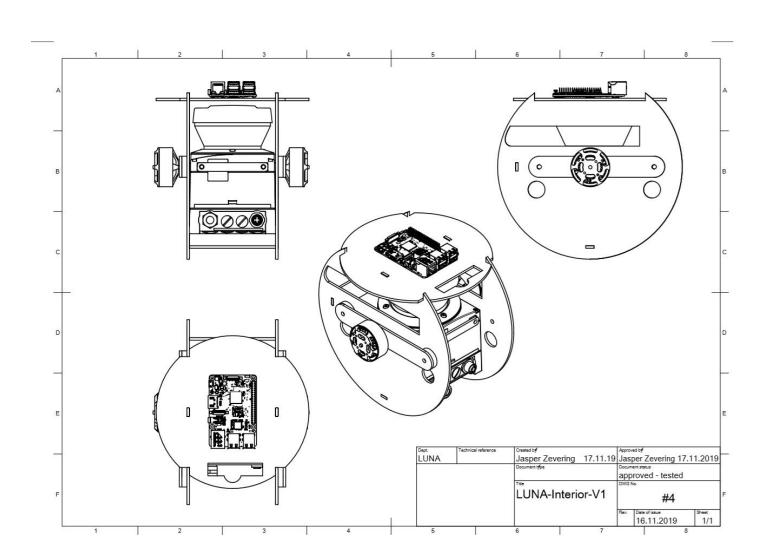


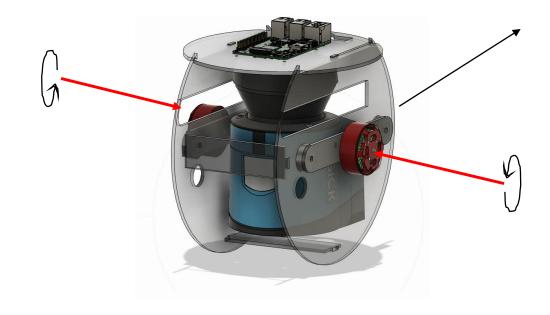
- 1042/1044 _0 PhidgetSpatial 3/3/3
- Magnetometer, Accelerometer and Gyroscope in 3D
- High precision
- Highly compatible with ROS

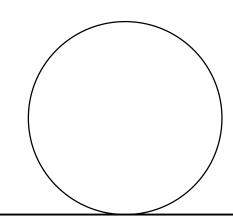












- ZTW Black Widow 2208 18A Brushless Motor
- Integrated ESC
- Can rotate CW or CCW



What have we done so far?











Schedule (initial)

	Anton Motor	Fabi IMU + Lok	Jasper + 3d Map	Mechanic
KW 44	Hardware besorgen	Pi auseinandersetzen	Current state 3d mapping	Planning mechanic
KW 45	_	Imu Auslesen	Ros 3d mapping, google mapping	Get Hardware
KW 46	Hardware ansteuern	Lage aus IMU	Implement mapping	Build
KW 47	Hardware sinnvoll ansteuern	Lage aus IMU	Merge with pose	Build
KW 48	Gegensteuerung	IMU Merging	Merge with pose	Build
KW 49	Mechanik Merging	Mechanik Merging	Visual	Mechanik Merging
KW 50	Mechanikfertigstellung	Meachanikfertigstellung	Mechanikfertigstellung	Mechanikfertigstellung
KW 51	Test	Test	Test	Track optimization
KW 52	_	_	_	_
KW01	_	_	_	_
KW 02	Präsentation / GUI	Presentation / GUI	Presentation / Visual 3d map	Presentation / Track optimization / Krater building
KW 03	Completed	Completed	Completed	Completed
KW 04	Actual Presentation	Actual Presentation	Actual Presentation	Actual Presentation

Schedule (updated)

	Anton Motor	Fabi IMU + Lok	Jasper 3d Map + Mechanik	
KW 44	Planning + scheduling	Planning + scheduling	Planning + scheduling + Current State	
KW 45	Hardware besorgen	Pi besorgen+ auseinandersetzen	Ros 3d mapping, google mapping + Ros nodes	
KW 46	Hardware ansteuern	Imu Auslesen + Ros nodes	CAD + helping IMU	
KW 47	Hardware präzise ansteuern	Imu Mergen	Built + Rendering for Presentation	
KW 48	Gegensteuerung	IMU Lage +Design for Presentation	Power distribution	
KW 49	Mechanik Merging	Mechanik Merging	Visual Output + Mechanik Merging	
KW 50	Mechanikfertigstellung	Mechanikfertigstellung	Mechanikfertigstellung	
KW 51	Test	Test	Test	
KW 52	_	_	_	
KW01	_	_	_	
KW 02	Präsentation / GUI	Presentation / GUI	Visual 3d map Krater building?	
KW 03	Completed	Completed	Completed	
KW 04	Actual Presentation	Actual Presentation	Actual Presentation	