



# Saad Naseer

**Geburtsdatum:** 26/01/1996 | **Staatsangehörigkeit:** pakistanisch | **Geschlecht:** männlich |

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**YouTube:** <https://www.youtube.com/@roboticsworkshop> | **LinkedIn:**

<https://www.linkedin.com/in/saad-naseer-2989b41a6/> | **Github:** <https://github.com/Saad-Naseer> |

**Adresse:** köln str 11, 50226, Frechen, Deutschland (Privatwohnsitz)

## • ÜBER MICH

I am a Robotics Engineer with a strong interest in learning and developing autonomous technologies and software. I am dedicated to creating solutions that enhance productivity and quality while reducing time and effort. My goal is to leverage cutting-edge technologies to drive innovation and efficiency in robotics systems.

## • BERUFSERFAHRUNG

08/12/2020 – AKTUELL Köln, Deutschland

**SOFTWARE DEVELOPER** ROBIDIA GMBH

I am responsible for the:

- Development of frontend and backend software for real-time robotics systems.
- Participation in software design discussions and making important decisions regarding the system architecture.
- Selection of the right hardware components, such as microcontrollers and communication devices, based on the specific needs of the project.
- Integration of software and hardware components.
- Leading the testing and validation of both software and hardware at every stage of development to ensure the system performs effectively.
- Documentation of code and creating user manuals.
- Presentation of our work at conventions such as IBC and Digital Demo Day.

01/10/2019 – AKTUELL Germany, Deutschland

**YOUTUBER** YOUTUBE

- Give lectures on robotics and real-time communication systems.
- Explain and implement algorithms using different programming languages across various operating systems.
- Teach the use of software and tools for software development.
- Produce and edit educational videos.
- Respond to queries and questions from viewers in the comments to provide additional support and clarification.

## • ALLGEMEINE UND BERUFLICHE BILDUNG

Bonn, Deutschland

**MSC IN GEODETIC ENGINEERING (MAJOR. ROBOTICS)** University Of Bonn

**Website** <https://www.gug.uni-bonn.de/en/master-ge> | **EQR-Niveau** EQR-Niveau 7

Islamabad, Pakistan

**BSC IN MECHATRONICS** Air University

**Website** <https://www.au.edu.pk/> | **EQR-Niveau** EQR-Niveau 6

Islamabad, Pakistan

**GERMAN LANGUAGE COURSE (A2)** NUML

**Website** <https://www.numl.edu.pk/>

## • SPRACHKENNTNISSE

Muttersprache(n): **URDU**

Weitere Sprache(n):

	VERSTEHEN		SPRECHEN		SCHREIBEN
	Hören	Lesen	Zusammenhän- gendes Sprechen	An Gesprächen teilnehmen	
ENGLISH	C1	C1	C1	C1	C1
DEUTSCH	A2	A2	A2	A2	A2

Stufen: A1 und A2: Elementar; B1 und B2: Selbstständig; C1 und C2: Kompetent

● **DIGITALE KOMPETENZEN**

**Programming Languages**

JavaScript | HTML | CSS | Python | C++ | C | LUA

**Softwares**

VS code | Jupyter Notebook | Octave | SolidWorks | Proteus | Latex | Overleaf | Visual Studio | CoppeliaSim | Matlab | Microsoft Office | Express PCB | Qt | Z+F LaserControl | Github | CloudCompare

**Micro-Controllers**

Esp32 | Jetson | Raspberry Pi | Arduino

**Operating Systems**

Linux | Windows | ROS | ROS 2

**Communication Protocols**

USB | Ethernet | Canbus | Sbus | Wifi | FreeD

● **KOMMUNIKATIONSFÄHIGKEIT UND SOZIALKOMPETENZ**

**Communication Skills**

- **Technical Communication:** Able to explain complex technical concepts clearly to both technical and non-technical audiences through documentation, presentations, and tutorials.
- **Written Communication:** Proficient in creating clear and concise documentation, user manuals, and reports.
- **Verbal Communication:** Effective in presenting ideas, leading meetings, and delivering lectures or training sessions.

**Interpersonal Skills**

- **Collaboration:** I have a strong ability to work effectively with team members and clients. I foster a positive and productive work environment.
- **Problem-Solving:** Skilled in addressing and resolving conflicts through constructive discussions and negotiations.
- **Empathy and Active Listening:** I am capable of understanding and responding to the needs and concerns of others. This helps in building strong professional relationships.

● **ORGANISATORISCHE KOMPETENZEN**

**Organisational Skills**

- Time Management:** Efficiently prioritize and manage tasks to meet deadlines and handle multiple responsibilities simultaneously.
- Project Management:** Skilled in planning, organizing, and overseeing projects from initiation to completion, ensuring that goals are met and resources are used effectively.
- Documentation and Record-Keeping:** Proficient in maintaining organized records, files, and documentation to ensure easy retrieval and efficient information management.

● **PROJEKTE**

**Implementation of Line Follwing Robot**

**Implementation of Maze Solving Robot**

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**Hardware and Software Desing for Magntic Levitation of Object**

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**Implementation of Bag of Words For Object Recognition**

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**Implementation of Support Vector Machine For Object Recognition**

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**Implementation and Comparsion of Object Motion Tracking Using Kalman and Particle Filter**

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**Implementation of Visual Odometry Using Scan Matching**

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**Calibration and Evaluation of Multi-Sensor System**

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**Quality Assurance of GNSS**

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**Fusion of Camera and 2D Lidar for 3D Colorized Point Cloud Generation**

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**Recognition and Depth Estimation of Grape Vines**

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**Enahncing Cross Domain Performance of Panoptic One-Click Segmentation: A step towards an efficient annotation tool**

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**Software Developtmnt For Autonomous Film Production**

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**Development of 3D motion Tracking Software for Real Time Virtual Production**

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**Implementation of APOS Software on a Programmable Switch via Stream Deck**

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**Implementation of licensing protocols to Protect the Software**

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