

# Shivam Shivam

Robotics & Automation Engineer



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## Professional Profile

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Robotics developer with 4 years of experience specialized in **ROS**. Always fostered a clean software development record with proper documentation.

I am eager to bring my experience in robotics hardware & software development as well as organizing research activities, to roles where I can contribute to empowering the research capabilities of industries or universities.

**Primary Stack:** Robotics Hardware & Software, ROS2, Isaac Sim, Linux, Python, C++, MATLAB, Web development (MERN)

## Work History

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10.2024 – Present

### Scientific Researcher for Intelligent Robotics

*Full-time* | **TC Cham** | Cham, Germany

**Tech Stack:** Isaac Sim, ROS2, Python, C++, Docker

- Enabled robots interface for centralised control of multiple robots using ROS.
- Accelerated research project development using digital twins of robot.
- Initiated monthly after-work event for colleagues to talk about new technologies, learnings, and failures.

11.2022 – 09.2024

### Research Assistant for Robot Programming

*Part-time* | **TC Cham** | Cham, Germany

**Tech Stack:** Robot programming, ROS, C++, HTML, ReactJS

- Succeeded in research project for automating a bending workcell with the help of robotic arm.
- Boosted productivity by 100% by having a robotic arm perform the bending instead of human operator.
- Observed repeatability of 0.5mm for bent parts which is much better result than manual bending using industrial camera.
- Allowed users to remotely monitor the robot using a web-based dashboard.

05.2021 – 07.2021

### Robotics Project Developer

Internship | IIT Bombay | Mumbai, India

**Tech Stack:** ROS, GazeboSim, Python, Markdown, mkdocs

- designed and developed ROS projects for next iteration of the robotics competition.

## Education

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03.2022 – 09.2024

Masters in Mechatronics and Cyber Physical Systems

TH Deggendorf (TC Cham)

Badstrasse 21a, 93413 Cham

08.2017 – 06.2021

Bachelors degree in Mechatronics

GGSIU (University), New Delhi

Delhi, India 110078

- Achieved top marks in course. (Gold medallist)

## Additional Skills & Interests

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### Languages

- English (C2), Hindi (Mother Tongue), German (B1)

### Experiences

- Bavarian Israel Partnership Accelerator 2022, Be'er-Sheva, Israel
- E-Yantra Robotics Competition 2020-21(secured 4<sup>th</sup> position out of 470 teams)

### Training & Certificates

- Summer school on Mobile and collaborative robotics. Cham, Germany
- Summer school on Virtual Commissioning/Digital Twin. Pilsen, Czech
- PLC Training. NSIC Delhi, India
- Training in Embedded & Robotics, HP Delhi, India

### Interests

- I play chess regularly as an active member of chess club SC Cham to sharpen my problem solving and pattern recognition skills.
- I enjoy self hosting web services on my home server and work on side projects like home automation, raspberryPi projects to be aware of the latest open-source technologies and improving my IT skills.

Cham, 05.02.2026

