

# Pramod Kumar Nagaraj

## R&D Software Engineer

Location: Vienna, Austria

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### SUMMARY

R&D Software Engineer with 3+ years of experience specializing in robotics, automation systems, and computer vision. Passionate about both software development and data science. Currently, I am seeking new opportunities to apply my skills in innovative projects.

### TECHNICAL SKILLS

<b>Robotics:</b>	ROS, SLAM, Control Systems, Sensor Fusion
<b>Programming:</b>	Python, C++, Bash Scripting
<b>AI/ML:</b>	Computer Vision (OpenCV), Predictive Maintenance, Data Analysis
<b>Cloud/DevOps:</b>	Docker, GitLab CI/CD, Azure
<b>Tools:</b>	Git, Gazebo, RViz, PyTest, Clang

### EXPERIENCE

#### Taurob GmbH

R&D Software Engineer

Vienna, Austria

Nov 2022–Present

- Developed ROS-based navigation stack for industrial inspection robots, **improving path planning efficiency** and **reducing collisions** in real-world deployments.
- Resolved complex behavioral problems in autonomous robots, **enhancing operational stability**.
- Contributed cloud-integrated robotic platforms enabling remote data storage and system monitoring.
- Automated CI/CD pipelines using GitLab, accelerating deployment cycles in robotic projects.

#### Taurob GmbH

Field & Support Software Engineer

Toulouse, France

Jul 2022–Oct 2022

- Gained in-depth understanding of robot behavior and limitations through direct interaction.
- Diagnosed and **resolved customer-reported issues** related to robot functionality and performance.
- Configured software modules to enable specific robotic actions and behaviors.
- Developed debugging tools to **monitor connectivity between cloud services and robotic systems**.

#### Dietsmann Smart Labs

Information Technology Developer

Toulouse, France

Nov 2021–Jun 2022

- Engineered computer vision pipeline to convert PID schematics into machine-readable formats, **reducing manual processing time by 90%** for oil/gas equipment.
- Trained TensorFlow models for predictive maintenance, **achieving 95% failure detection accuracy** and saving more than €200K+ annually.
- Developed custom data preprocessing annotation pipelines that **improved dataset quality by 35%** for industrial inspection systems.

### EDUCATION

#### EPITA - Graduate School of Computer Science

M.Sc. Artificial Intelligence Systems

Paris, France

2020–2022

Focused on algorithmic programming, machine learning (including NLP and computer vision), cloud computing with AWS, and both relational and NoSQL databases.

### LANGUAGES

- English (Professional)
- Telugu & Kannada (Native)