

# PRATEEK

## NANHORYA

### CONTACT INFO

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<b>GitHub</b>	<a href="https://github.com/xD-prateek">https://github.com/xD-prateek</a>
<b>StackOver-flow</b>	<a href="https://stackoverflow.com/users/20893674/xd-prateek">https://stackoverflow.com/users/20893674/xd-prateek</a>
<b>Discord</b>	<a href="https://discordapp.com/users/751843447014555748">https://discordapp.com/users/751843447014555748</a>

### ABOUT ME

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I am nice, fun and friendly person.  
RUST being my first language.  
Also skilled in C++ and Python.  
Have experience with ML and AI search methods.  
Keen interest in Robotics and automation.  
Efficient in Hardware level programming.  
Eager to learn basic development.

I am dedicated, organized, methodical person when the work aligns to the domain of my interest.

Keen to develop or work with new autonomous hardware/software systems, trustful enough to be relied upon. Ready to utilize my skills and passion to further the mission of a company. Bringing forth a quick positive attitude and willingness to learn in the domain. Committed to working as a collaborative and positive team member, striving to utilize my knowledge and expertise for optimal engineering results.

## EXPERIENCE

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### ROBOTICS INTERN

July 2022 - December 2023

*UST Global* | Thiruvananthapuram, Kerala, India

(Autonomous Mobile Robot development with modern path planning algorithms)

- Wrote algorithms and programming code for odometry implementation.
- Processed and interpreted signals and sensor data.
- Developed new nodes in ROS2 foxy.
- Debugged robotics programs.
- Implemented mapping and navigation algorithms using SLAM and NAV2.
- Developed c++ code for new dynamic navigation algorithm RRT\*
- IsacSim simulation of warehouse environment.
- Using FoxGlove to determine and rectify faults
- Worked with numerous micro-controllers, motor-drivers.

### RESEARCH INTERN

May 2021 - July 2021

*Aditya Birla: Ultratech Cement* | Kotputli, Rajasthan

(Research on Electrostatic Dust Particle Accumulator)

- Study about the electrostatic effects of dust accumulator and how it is implemented.
- Suggested ideas to improve efficiency and productivity.
- Suggested methods to reduce maintenance costs

### ROBOTICS DOP

Jan 2023 - Current

*BITS Pilani*

(Development of flexible robot using Cosserat theory)

## EDUCATION

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### B.E. in Mechanical Engineering

Aug 2019 - June 2023

*BITS Pilani, K.K. Birla, Goa Campus* | Vasco da Gama, Goa, INDIA

- Graduated with 7.75/10 CGPA
- Thesis topic: MEMS (Micro Electro Mechanical Systems), CAD (Computer Aided Design), MicroFluidics, Heat Transfer, Manufacturing Process

### Class 12<sup>th</sup>

March 2017 - March 2018

*International Public School* | Bhopal, M.P., INDIA

(88%)

### Class 10<sup>th</sup>

March 2015 - March 2016

*International Public School* | Bhopal, M.P., INDIA

(10 CGPA)

## SKILLS

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- ● ● ● ○ Linux Platform
- ● ● ● ○ RUST Programming Language
- ● ● ● ○ C++ Programming
- ● ● ○ ○ Python Programming
- ● ● ● ○ Data Structures and Algorithms
- ● ● ○ ○ Object Oriented Programming
- ● ● ○ ○ ROS, ROS2
- ● ● ○ ○ Microcontrollers
- ● ● ○ ○ AI: Search methods and Problem Solving
- ● ● ○ ○ Machine Learning
- ● ● ○ ○ Deep Learning
- ● ● ○ ○ Control Systems
- ● ● ● ○ Mechanical Designing and analysis (FreeCAD, Comsol)
- ● ● ○ ○ Markdown
- ● ○ ○ ○ Docker
- ● ○ ○ ○ Bash Scripting
- ● ○ ○ ○ React Js.

#### Languages

- Hindi (native)
- English (Full professional proficiency)
- French, Malayalam (Basic)

## CERTIFICATIONS

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- DOCKER: Beginner's course
- C++ Programming
- Python Programming
- ROS Noetic
- ROS Foxy
- Machine Learning
- Data Visualization

## HOBBIES

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- Calisthenics
- Sprinting
- Badminton
- Cricket
- Table Tennis
- Gaming