



PRATEEK NANHORYA
Course : **B.E. (Hons.)**, Mechanical Engineering, 2023
Email : f20190564@goa.bits-pilani.ac.in
Mobile : 9340911495
CGPA : 7.74



Subjects / Electives	CAD (Computer Aided Design),DME (Design of Machine Elements),Microfluidics,Kinematics and Dynamics,Manufacturing Processes,Fluid Mechanics,Heat Transfer,Micro Electro-Mechanical Systems (MEMS)
Technical Proficiency	Linux platform,Rust,C++ Language,Python3,Data Structures,Algorithms,Object-Oriented Programming (OOP),Artificial Intelligence,Machine Learning,Robotic Systems,ROS,ROS2,Microcontrollers,Robotic Process Automation,Control Systems Design,Markdown,Docker,FreeCAD,COMSOL,Python,C Programming,React.js

SUMMER INTERNSHIP / WORK EXPERIENCE

Robotics R&D, UST Global Autonomous Mobile Robot (AMR) development with modern path planning algorithms PURPOSE: Improve efficiency in warehouse management. <ul style="list-style-type: none">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 faultsWorked with numerous micro-controllers, motor-drivers.	Jul 2022 - Dec 2022
Research, Aditya Birla (Ultratech Cement) Study about the electrostatic effects of dust accumulator and how it is implemented.	May 2021 - Jul 2021

PROJECTS

Development of flexible Robot - Robotics Currently Working...	Jan 2023 - Present
Automotive Mobile Robot for Dynamic warehouse environments - Robotics	Jun 2022 - Dec 2022
HMCS device for Inflatable Structures in space. - MEMS @ BITS	Jan 2022 - Apr 2022

CERTIFICATIONS

CERTIFICATION	CERTIFYING AUTHORITY
Introduction to Machine Learning	Kaggle
Intermediate Machine Learning	Kaggle
Pandas	Kaggle
ROS for beginners (ROS Noetic)	Udemy
Intro to Programming	Kaggle
Data Visualization	Kaggle
Python	Kaggle
Docker Beginner's course	KodeKloud

OTHER ACADEMIC DETAILS

COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	SCIENCE	International Public School, Bhopal	CBSE	89 %	2018
CLASS X		International Public School, Bhopal	CBSE	10 CGPA	2016

POSITION OF RESPONSIBILITY

POSITION OF RESPONSIBILITY	
DoCW Core Member - Department of Creative Works	Aug 2021 - Aug 2022
CONFERENCES AND WORKSHOPS	
Getting started with Postman Organized by: BITS Pilani, Pilani campus Date: Development with ROS2 Organized by: The Construct Date: Aug 2022	
LANGUAGES KNOWN	
English, Hindi, French	
EXTRA CURRICULAR ACTIVITIES	
Chess Calisthenics Sports <ul style="list-style-type: none">• Badminton• Table Tennis• Cricket• Football Runnning/Sprinting	
SCHOLARSHIPS	
MCN Scholaarship	Oct 2022