## DAKSH GARG

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Columbia University, New York	Expected Dec 2024
MSc in Mechanical Engineering; Specialization in Robotics and Control	I.
Coursework: Robotics Studio, Robot Kinematics, Digital Manufacturing, Aerodynamics, Fluid Mechani	ics, Control Theory, Data Science,
Mechatronics and Embedded Microcomputer Control	
Manipal University Jaipur, Rajasthan, India	Nov 2022
B.Tech in Mechatronics Engineering, CGPA: 8.06/10	
<ul> <li>Coursework: Technical Communication, Thermodynamics, Solid Mechanics, Material Strength, Analog Safety System, Fluid Mechanics, Fundamentals of Automobile, Pneumatics &amp; Hydraulic Systems, Artif Instrumentation, Basic Electrical &amp; Electronics, Signals &amp; Systems, Environmental Sciences, Value and</li> </ul>	icial Intelligence, Robotic Systems,
PROJECTS	
DUNKS Coffee Delivery Robot, Columbia University	Sep 202.
• Designed a low cost, low footprint robot arm (DUNKS) with 4 revolute and 1 prismatic joint to improve	e efficiency of transiting well-made coffee
from preparation counter to delivery area.	
• Created a design; reduces human labor cost by 20%, wait time of customers and increases overall profits	5.
Best time to visit London (Data Science Approach), Columbia University	Sep 2022
• Sampled a Data set included 8 parameters including Sunshine, Max and Min Temperature etc.	50p 202.
<ul> <li>Applied linear regression and artificial intelligence techniques to solve problem.</li> </ul>	
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Pothole Detection using OpenCV, IEI Mechatronics Club	Oct 2022 - Dec 202
· Aimed at tackling growing rate of accident across India due to unmarked potholes; it functions as a mon	itoring drone to detect 95% of potholes on
a path and uses cloud to send information to concerned authorities.	
• Focused on creating initial POC, where 5 components were based on required speed, weight category an	
Collaborated OpenCV to do artificial intelligence calculations and drones were used to map area of prox	simately 10000 sq.ft.
Domestic Motor Timer, Manipal University Jaipur	Oct 2021 - Dec 202
• Developed timer for domestic motors operating PLC turns motor ON and OFF at particular times based	on water timings of a particular locality.
• Managed programmable logic, actuators and sensors assembly to design array of 4 working parts.	
EXPERIENCE	
Shriram Pistons and Rings Ltd, Ghaziabad, India	Jan 2022 - Jun 2022
Research Engineering Intern	
Collaborated in research activities in R&D Department on designs of Pistons and Rings with 2 other integration	
Drew pistons and rings ensuring 35% less material wastage with optimum functioning through better ma	aterial usage.
3A Yantra Inc, Ghaziabad, India	Jun 2021 - Jul 202
Design Engineering Intern	
Programmed CNC machines to develop various Special purpose machines for clients	
Drafted and verified drawing layouts, and supervised machine maintenance to ensure smooth functionin	g resulting in 30% better efficiency.
ASP Sealing Products Ltd., New Delhi, India	Jun 2020 - Jul 202
Design Engineering Intern	
• Devised and documented drawing layouts and designed sealing products on AutoCAD and Revit.	
Reviewed blueprints for onsite productivity and implemented construction accordingly.	
Instructed by Scholars in Mechanical and Electrical engineering for construction of design.	
<ul> <li>Instructed by Scholars in Mechanical and Electrical engineering for construction of design.</li> <li>SKILLS</li> </ul>	

**Design Tools:** CREO Parametric, AutoCAD, Fusion360, Solidworks, CODEsys, MATLAB, Simulink, Labview **Microsoft Office Package:** Word, Excel, Powerpoint

## AWARDS

• Highest scorer in batch in Technical Communication (2nd Semester), Engineering Thermodynamics (2nd Semester), Organization and Management (5th Semester).

• Gold Medalist in High School for overall proficiency.