

## **RISHABH JAIN**

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### **EDUCATION**

<b>Modern School Vasant Vihar, New Delhi, India;</b>	2009 – Present
• Central Board of Secondary Education, Grade 12 (Predicted- 96%)	Present
• Central Board of Secondary Education, Grade 10 (94.3%)	2021

### **STANDARDIZED TESTS AND APs**

• SAT Test: Total – 1540; Critical Reading & Writing – 750; Math – 790	2022
• AP Examinations: Calculus AB – 5; Microeconomics – 5	2022

### **ACADEMIC HONORS AND AWARDS**

#### *School Awards*

• Highest marks in Physics, English, and Computer Science in grade 11	2022
• Highest marks in German in grade 10 Board Examinations (99/100)	2021

#### *International Awards*

• Crest Gold Award by British Science Association for contribution in STEM	2023
• Scored in top 25% in <i>Hypatia Examination</i> by University of Waterloo	2022
• Award for tremendous contribution towards 'Express for Humanity and Artistic Tribute to Jose Marti'	2022
• Scored highest marks in <i>FIT in Deutsch 1</i> by Goethe Institute	2018

### **LEADERSHIP INITIATIVES**

<b>Adopt a Filter Campaign, Delhi, India</b>	2021 – Present
- Started a campaign to combat the acute shortage of potable water in Delhi with the Motto 'Har Ghar Pani' (Water for Everyone)	
- Collected over Rs. 4,00,000 and installed over 417 water filters in houses of house helps, drivers, rickshaw pullers etc.; we aim to install additional 500 filters by year end	
- Explained the importance of clean drinking water, provided certificate of installation and donation to beneficiaries and donors	
- Featured on the 'Free Press Journal' 20 <sup>th</sup> September' 22 Press issue & Children's issue	
- Won 'The Need of the Hour Award' by Round Table India in January 2023	

<b>Career Insights</b>	2021 – Present
- Created a YouTube channel & interviewed successful professionals of different industries	
- Gained access to insightful advice of high performing individuals and career outcomes	
- Uploaded 11 interviews	

### **TECHNOLOGY AND INNOVATION**

<b>Water Filter</b>	2021
- Reengineered an economical, sustainable, powerless water filter using Solidworks	
- Installed in houses of poor through 'Adopt a Filter Campaign'	
<b>Multipurpose Liquid Dispenser</b>	2020
- Designed and developed using Solidworks	
- Can be used to dispense liquids like sanitizers and beverages conveniently.	
<b>Line Following Robot</b>	2020
- Engineered using ultrasonic sensors and Arduino Uno microprocessor	
<b>Wireless Car Charging Model</b>	2021
- Demonstrated possibility of efficiently wirelessly charging cars	
- Won CREST GOLD AWARD	

## **Written Tutorials**

2021

- Step by step guide of design and development for young budding minds
- Uploaded on Instructables

## **ENGINEERING EXPERIENCES AND RESEARCH**

### *Research*

#### **Research Paper**

2021

- Independent research paper titled 'Fabrication of Continuous Wireless Energy Transmission on the Run for Electric Vehicles' under the mentorship of Mr. P.R. Tiwari – HOD Physics, Modern School Vasant Vihar
- Used concepts of Mutual Electromagnetic Induction and Faraday's Laws of Induction to wirelessly charge the vehicle without any stoppage.
- Collected data from 53 electric car owners, 7 car dealers and automobile industry experts to analyze sales trends and future viability of EVs
- Won the Crest Gold Award by British Science Association for contribution in STEM

#### **Research Paper**

2022

- Independent research paper titled 'Magnetic Field in Humans Due to Neurons'
- Emphasizes on developing ideas about microtubules and the way they translate information to the human brain cortex through electrophysiologic impulse
- The research paper has been sent for publishing to various International Journals

#### **Research Intern**

2021

- Assisted Ms. Rakhi, Ass. Prof. at Delhi Pharmaceutical Sciences and Research University, in conducting research on 'AI in Healthcare'
- Sent questionnaires to 537 doctors to understand the need of AI in healthcare and the impact of Covid on the healthcare industry
- Summarized several research papers and compiled the data for further review

### *Internships*

#### **Kent RO Systems Ltd., Delhi, India**

June 2021 – March 2022

- Kent is the leader and one of the largest manufacturers of water purifiers in India with an annual turnover of over \$150 million
- Interned in Research & Development Department under mentorship of Mr. Sumit Sharma, Head of R&D Dept.
- Learned prototype designing and assisted in testing and recording observations of prototypes of rice cookers, electric kettles, egg poachers; made a report on LED fans and their Chinese counterparts
- Reengineered an economical, sustainable water filter for my campaign 'Adopt a Filter'
- Visited their factory in Roorkee, India and understood manufacturing, safety measures, and supply chain management

#### **Maharashtra Seamless Ltd., Delhi, India**

June 2022 – August 2022

- Maharashtra Seamless, a flagship company of D.P. Jindal Group, is a BSE listed company and the leader and largest pipe manufacturer in India with an annual turnover of over \$500 million
- Interned in Technical Procurement Department under mentorship of Mr. Rajesh Jindal, Head of Technical Procurement Dept.
- Undertook analysis of procurement of metals like steel, cobalt, nickel and nuts & bolts, bearings, motors from competing vendors
- As MSL has multiple verticals, I also learned about Oil Rigs: how bidding is done for drilling, rigs are deployed & tracked, and oil sites are drilled & marked.

## **COMMUNITY FOOD INITIATIVE**

### **Project Khana Bachao**

2020 – Present

- An initiative with the motto 'Save Food, Serve Food' that works towards the welfare of less fortunate by providing them with unused meals that often go waste
- Collaborated with over 15 eateries and 60 houses for leftover party food and distributed food twice a week to approx. 2000 people monthly
- Conducted awareness campaigns out of school to demonstrate how to not waste food and uses of leftover food; added 4 additional volunteers

## **SCHOOL CLUBS AND SOCIETIES**

### **President of Computer Science Club**

2022 – Present

- Organised and led Annual Tech Interschool Event of our school – Modem'22
- Led the school in interschool tech events

### **Sergeant-at Arms of Interact Club**

2022 – Present

- Organised traffic management drill outside school and the Annual Bake Sale, raised over Rs. 70,000
- Organised Inter NGO Sports Meet and encouraged students to volunteer and join the club

### **Member of MUN Society**

2019 – Present

- Participated in 20 MUN conferences including Harvard MUN, LMUN, Sanskriti MUN

## **SPORTS ACHIEVEMENTS**

### **Basketball**

- Captain of school team 2018 – Present
- Captain of Academy team; trained underprivileged children in basketball 2018 – Present at the academy
- Led and won many interschool and zonal tournaments
- Set up a basketball club - "U Hoopers" for children of charitable academic institutions

## **INDO GERMAN EXCHANGE PROGRAM**

2019

- With Ferdinand-von-Miller Realschule, Fürstenfeldbruck, Germany
- Was hosted by a German family for two weeks and hosted one German student at my house

## **OUTREACH INITIATIVES**

### **Round Table India**

2020 – 2021

- Volunteered for blood donation drive, breast cancer awareness camp and free cataract surgeries
- Impacted the health of 3000+ adults and 2000+ children through various camps.

### **Sunshine Foundation**

2021

- Made maths and science assignments, hosted doubt clarification classes for NGO children