

NEIL ARORA



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SKILLS

Web Development

- HTML / CSS
- Firebase Hosting
- Cloudflare

Low Level Programming / Embedded

Technologies

- Holy C / C
- Objective C
- Firmware Development

Game Development

- C# with Unity
- 2D Asset Creation
- GDscript with Godot

Robotics / Electronics

- ATMEGA chipsets
- Raspberry Pi
- ESP microprocessors
- STM32 and ARM architecture
- Embedded Technology
- PCB designing and Manufacturing

CAD / CAM

- Fusion 360
- G-CODE generation
- 3D printing and CNC
- Fluid Simulations

Database Management

- MySQL

Computer Vision

- Python
- OpenCV

Soft Skills and Interests

- Leadership and Mentorship
- Saxophone & Sitar
- Golf
- Server Management

EXPERIENCE

PARIKSHA PE CHARCHA

JANUARY 2024

PRESENTER AND DEVELOPER

One of 11 students selected from CBSE schools nationwide to showcase my project to **Hon'ble Prime Minister Shree Narendra Modi**.

The technologies used include ATMEGA 328P, Objective C, CAD/CAM, Manufacturing and Virtual Testing on Fusion 360.

CBSE SCIENCE EXHIBITION

DECEMBER 2023

CO-LEADER AND ENGINEER

We were the **winners** of the Transport and Communication Category at Regional Level.

The technologies used include ATMEGA 328P, Objective C, CAD/CAM, Manufacturing and Virtual Testing on Fusion 360.

F1 IN SCHOOLS

2022-2023

TEAM MANAGER, CAR DESIGNER AND MANUFACTURING ENGINEER

We were the **winners** at Regional Level.

We qualified for Nationals where we won **Fastest Reaction Time** Award and were **one of top 14 teams**.

The technologies used include CAD/CAM, Manufacturing, Virtual Testing on Fusion 360, Fluid Simulation and Material Science.

WORLD ROBOTICS CHAMPIONSHIP 2019, 2022 & 2024

LEADER, DEVELOPER AND ENGINEER

We were selected for **international level** in 2024 and 2022.

We were selected for **international level** in 2019 and were the **world finalist**.

The technologies used include ATMEGA 328P, Objective C, CAD/CAM, Manufacturing and Proportional-integral-derivative controller.

INTEL ARTIFICIAL INTELLIGENCE

MAY 2022

STUDENT AND DEVELOPER

I was selected by **Intel** to create a Emotion Detection Software using OpenCV and Python.

The technologies used include Python and OpenCV.

OTHER EXPERIENCE

PROGRAMMING CERTIFICATIONS

Certified with A+ grade in **Scratch, HTML and CSS.**

CODATHONS

Participated in **Google Code-A-Thon.**

Participated in **Apple's Swift Playground Challenge.**

MISCELLANEOUS

Founder and **Programmer** at **Another World Game Studios.**

1st Prize in **ATL Tinkerfest 2024 Seth Aandram Jaipuria 2024.**

Participated in **Innovation To Elevate** competition hosted by

Government of Uttar Pradesh & NASA.

Participated in **ALO** hosted by **IIT Delhi.**

Participated in **Reverberations 2019** hosted by **Bal Bharti Public School.**

Certified in **Quantum Computing** from **IIT Delhi.**

OTHER ACHIEVEMENTS

ACADEMICS

Class X- **96.6%** aggregate.

Class IX - **90.2%** aggregate.

Scholar Badge Holder in Grade **VI, IX and X**

Eligible for **Scholar Badge** in Grade **VIII and VII**

STUDENT COUNCIL

Was given the responsibility of **Vice IT Captain** in grade XI.

Was given the responsibility of **House Captain Nalanda** in grade V.

ONLINE LEARNING COMMUNITY

Was given the responsibility of **Vice President** of the **STEM OLC** in grade XI.

NATIONAL YOUTH AWARD

Received personal recommendation by **Dr. Ruchi Seth ma'am** (Director-Principal, Lotus Valley International School, Noida) for **National Youth Award** in the form of a Letter of Recommendation as attached.

SOFT SKILLS

SAXOPHONE

Only Saxophone player in our school.

Selected for **solo** and **lead** in school's band.

SPORTS

Bronze Medal in Golf tournament.

Certificate of Excellence in Soccer by Soccer Foundation, India.

INTERNSHIPS

COMPACT INFRA (ADITYA BIRLA GROUP) MAY 2024

SOFTWARE DEVELOPMENT

I was assigned and successfully completed my task of building an **offline truck and goods management software** for **Compact Infra**, contractor of the prestigious **Aditya Birla Group**.

The technologies used include **Python**, **Pickle Database**, **File Management** via Pickle and **Bill/Challan generation** by Python.

UNITED NATIONS (UNGSII) JUNE 2024

SUSTAINABILITY AND SDG

I was assigned and successfully completed my task of learning and understanding about different **Sustainable Development Goals**. I also conducted a **global survey** to get to know how different **citizens infer the Sustainable Development Goals**.



8 February, 2024

TO WHOM IT MAY CONCERN
Recommendation for National Youth Award, 2021-22

It is with the utmost pleasure and confidence that I compose this letter of recommendation for Neil Arora, a distinguished student whose exemplary talents and accomplishments have significantly enriched our school community.

Neil epitomizes the essence of academic excellence and innovation, showcasing unparalleled proficiency across various technical domains, including robotics, electronics, computer science, artificial intelligence, and machine learning. His academic performance consistently reflects a profound dedication to intellectual rigour and exploration, earning him widespread admiration among his peers and educators, alike.

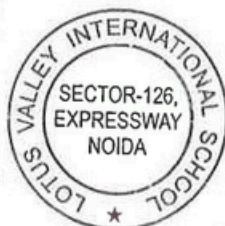
Neil's achievements extend beyond the confines of our institution. He has demonstrated exceptional prowess on both national and international platforms, participating in numerous robotics and science championships and securing several prestigious accolades. These commendable successes serve as a testament to his ingenuity, problem-solving acumen, and unwavering commitment to excellence.

In addition to his technical aptitude, Neil also possesses a remarkable artistic talent, captivating audiences with his performances on the Sitar and Saxophone during various school events. Furthermore, his passion for Golf is underscored by his notable achievement of clinching a bronze medal in an array of interschool tournaments, showcasing his determination and sportsmanship.

Neil's multifaceted talents, coupled with his dedication and strength of character, render him an exemplary candidate for any programme or opportunity he may pursue. I am confident that he will continue to excel and inspire those around him with his exceptional abilities and unwavering commitment to excellence.

In conclusion, it is my sincere belief that Neil is deserving of the highest commendation and endorsement. I wholeheartedly recommend him for the National Youth Award, 2021-22, fully confident in his capacity to make profound contributions and uphold the highest standards of excellence.

Dr. Ruchi Seth
Director Principal



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