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
- GDscript with Godot
- Blueprints with Unreal Engine

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
- Supabase

Computer Vision
- Python
- OpenCV

Soft Skills and Interests
- Leadership and Mentorship
- Saxophone
- Golf
- Server Management
- Research Skills

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 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 leve**l 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 INTELLEGENCE   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 highest grade in **HTML and CSS.**

CODATHONS

- Participated in **Google Code-A-Thon.**
- Participated in **Apple's Swift Playground Challenge.**

MISCELLANEOUS

- **Co-Founder** and **Programmer** at **GenericCube Studios.**
- **1st Prize** in **ATL Tinkerfest 2024 Seth Aandram Jaipuria 2024.**
- Participated in the **Innovation To Elevate** competition hosted by the **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 Grades **VI** and **IX** (LVISN).
- A **Top 20** student in Grade 10, Awarded with **Scholar Badge** and **cash reward** (LVISN).
- Eligible for **Scholar Badge** in Grades **VIII** and **VII** (LVISN).

STUDENT COUNCIL

- Was given the responsibility of **Vice IT Captain** in LVISN.
- Was given the responsibility of **House Captain Nalanda** in LVISN.

ONLINE LEARNING COMMUNITY

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

NATIONAL YOUTH AWARD

Received personal recommendation by **Dr. Ruchi Seth ma'am** (Director-Principal, Lotus Valley International School, Noida) for **National Youth Award**.

SOFT SKILLS

SAXOPHONE
Only Saxophone player in LVISN.

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**.

SCHOLARSHIPS

ISS INTERNATIONAL SCHOOL   JAN 2025
MERIT SCHOLARSHIP

I was awarded an **80% scholarship** based on my merit to attend **ISS International School, Singapore**.

DS RESIDENCES   JAN 2025
MERIT SCHOLARSHIP

I was awarded a **50% scholarship** based on my merit by **DS Residences, Singapore**.

PUBLIC IMPACT INITIATIVES

TALKMED RELAY FOR LIFE
PARTICIPANT

Participated in **Singapore Cancer Society-TalkMed Relay For Life**, an overnight event to raise awareness about cancer patients.

NET IMPACT DELHI UNIVERSITY
RESEARCH AND CONTENT CREATION

A **research and content** member of **Net Impact's Delhi University chapter**. **Net Impact** is an **international nonprofit organization** for students and professionals interested in using **business skills** in support of various **social and environmental causes**.