

# NEIL ARORA



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## SKILLS

### Web Development

- HTML / CSS
- Firebase Hosting
- Cloudflare

### Low Level Programming and Embedded

#### Technologies

- Holy C / C
- Objective C

### Game Development

- C# with Unity
- GDscript with Godot
- Blueprints with Unreal Engine

### Robotics and Electronics

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

### CAD and CAM

- Fusion 360
- G-CODE generation (Slicer Manipulation)
- 3D printing and CNC
- Fluid Simulations

### Database Management

- MySQL
- Supabase

### Computer Vision

- Python
- OpenCV

### Soft Skills and Interests

- Leadership and Mentorship
- Saxophone
- Golf
- Event Management and Hosting
- Research Skills
- 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 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.

The technologies used include Python and OpenCV.

# OTHER EXPERIENCES

## 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**.
- 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**.
- Received **testimonial** for helping at **Sports Day** at **ISS, Singapore**.
- Winner of **Knowledgeable** learner profile award in **G-11** at **ISS, Singapore**.

# OTHER ACHIEVEMENTS

## ACADEMICS

- All India Secondary School Examination - **96.6%** aggregate.
- **Scholar Badge Holder** in Grades **VI** and **IX** (LVISN).
- A **Top 20** student in Grade **X**, Awarded with **Scholar Badge** and **cash reward** (LVISN).
- Eligible for **Scholar Badge** in Grades **VIII** and **VII** (LVISN).
- **Honour Roll** recipient for Grade **XI** and **top 5** student (ISS).

## 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** (Director-Principal, Lotus Valley International School, Noida) for **National Youth Award** by **Government of India**.

# SCHOLARSHIPS

**ISS INTERNATIONAL SCHOOL**  
MERIT SCHOLARSHIP

**JAN 2025**

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

**DS RESIDENCES**  
MERIT SCHOLARSHIP

**JAN 2025**

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

# 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)**  
SUSTAINABILITY AND SDG

**JUNE 2024**

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**.

# PUBLIC IMPACT INITIATIVES

**TALKMED RELAY FOR LIFE**  
PARTICIPANT

**MARCH 2025**

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

**APRIL 2025**

Selected as one of the **youngest and high-school members** among a cohort of **college students** to be a part of the **research and content** department of **Net Impact's Delhi University chapter**.

**Net Impact** is an **international nonprofit organization** for college students and professionals interested in using **business skills** in support of various **social and environmental causes**.

# PUBLICATIONS

## INDUSTRY REPORT - EV

APRIL - JUNE 2025

RESEARCHER AND AUTHOR

**Researched** and **wrote** an **industry report** highlighting information regarding the **electric vehicle industry**.

The report was published in collaboration with **Net Impact - Delhi University** and can be accessed via their **LinkedIn page [here](#)**.

## ARTICLE ON SOFT DIPLOMACY

JUNE 2025

RESEARCHER AND AUTHOR

**Researched** and **wrote** an article for **Net Impact - Delhi University** about **yoga** as a tool of **soft diplomacy** for **India**.

This article was written in light of **global yoga day** and can be accessed via **LinkedIn [here](#)**.

# 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.