

# Veer Nahar

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## EDUCATION

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**Eastside Preparatory School**

Kirkland, WA | **September 2019 – Present**

**Class of '26** 3.94 Unweighted GPA

Courses: Adv. Topics in Mathematics, Adv. Calculus, Algorithms & Data Structures

## PROFESSIONAL EXPERIENCE

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**Axon-Robotics, LLC** | *Founder*

Sammamish, WA | **August 2022 – Present**

Launched a robotics company aimed at making innovative, high-performance parts for top high school robotics teams around the world. Current offerings range from custom servo motors to omni wheels and bevel gears

- Developed 9 unique products from concept to production, including design, manufacturing, and assembly
- Managed inventory and distribution of 2,500 orders/12,500 units to date. Shipped to over 45 US states and 10 countries
- Trusted by 95% of top teams globally, including winners of the 2023 & 2024 FIRST Tech Challenge World Championships

**Lifespark Technologies PVT LTD** | *Mechanical Engineering Intern*

Mumbai, India | **July 2024**

- Researched and proposed cable-driven reducers as cost-effective replacements for harmonic drives in lower limb exoskeletons

**Tru.Kitchen** | *Part-time Mechanical Engineering Intern*

Sammamish, WA | **June 2023 – September 2023**

- Helped design a rotary attachment for 36" cooking pots that can automatically dispense ingredients at the correct time, removing the need to train chefs on how to cook certain dishes

**Eastside Preparatory School** | *Part-time Full-Stack Intern*

Remote | **July 2023 – August 2023**

- Updated both the backend and frontend systems used for conference room and cafeteria displays

**Ekamusa.org** | *Part-time Full-Stack Intern*

Remote | **July 2023 – August 2023**

- Worked on modernizing website and increasing interaction and engagement from potential donors

## PERSONAL PROJECTS

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**Social Distancing Device**

Remote | **April 2021 – March 2022**

Prototyped a 7mm thick credit card-sized device that vibrates when another person approaches within a 6-foot radius, to aid with social distancing and allow students to get back to school during the COVID-19 pandemic

- Pitched the idea to the Eastside Preparatory School. The school board approved the project and authorized \$10,000 dollars in funding for 750 units in total, one for every student and faculty member
- Found suppliers for all components required and worked with an assembler to finalize a quote for the completed product
- The pandemic subsided before production started and the device was no longer needed

**Quadcopter**

Sammamish, WA | **Summer 2017**

- Researched UAV technology. Designed, built, and tuned a lightweight quadcopter to achieve flight speeds of 100+ mph

## EXTRA-CURRICULARS

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**FIRST Tech Challenge Robotics** | *Captain, Lead Designer, Programmer*

Sammamish, WA | **September 2019 – Present**

Designed, manufactured, and assembled 7 unique robots using data-driven design to create robust and efficient mechanisms

- Implemented industry-standard control techniques including inverse kinematics, PID controllers, motion profiles, and CV
- Franklin Division finalist at the 2023 FIRST Tech Challenge World Championship, undefeated (9-0) at the 2024 Washington State Championship, and Edison Division winner at the 2024 FIRST Tech Challenge World Championship

## SKILLS

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**Design** – DFM/DFA, significant experience with Onshape, SolidWorks, and Fusion360

**Manufacturing** – CNC Router/Mill, Laser Cutter, FDM/SLS/SLA 3D Printing

**Software** – Experience working with Java, Python, HTML/CSS/JS. Microsoft, Adobe & JetBrains Suites