


Dhruva Sharma

High School Senior

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Dynamic Team Captain and lead programmer of a World Champion FIRST Robotics Team with a proven ability to inspire and guide teammates—highly skilled programmer with 4 years of experience in software development and integration. A collaborative leader focused on positive attributes in everyone, fostering inclusivity, and always taking a team-centric approach. Strong communicator, logical thinker, and problem solver with a track record of leadership at school and outside school. Passionate about STEM advocacy and highly successful as a science and inventor's fair participant, showcasing a commitment to innovation and excellence in STEM.



Skills

- Java Programming ●●●●● Excellent
- Android Studio ●●●●● Excellent
- OpenCV/Tensorflow/Vuforia ●●●●● Very Good
- Python ●●●●● Very Good
- Arduino ●●●●● Good
- Fusion 360 ●●●●● Very Good
- XCode ●●●●● Good
- Testing and debugging ●●●●● Very Good
- Software documentation ●●●●● Very Good
- Equipment troubleshooting ●●●●● Very Good



Volunteer/Work History

- **Team Captain & Lead Programmer**

2020-08 - Current

Java The Hutts FIRST Tech Challenge, Fort Myers, FL

- Set goals for season, lead team on-and off events, schedule practice sessions and organize community outreach events
- Invest time to build and strengthen relationships with team of 12 students by ensuring tasks are completed in timely manner
- Program season robot for both autonomous and driver-controlled periods
- Part of two-member drive team for driving robot at competitions
- Develop, deploy, and test prototypes for various sub-systems of robot to assess functionality and feasibility

2024-07 - Current

● **Paid Intern**

Lee County Department of Transportation, Fort Myers, FL

- Assist in traffic signal optimization by collaborating with experts on improving real-world traffic systems
- Contribute to research on flow efficiency

2024-06 - 2024-07

● **Research Student**

Webvalley Summer Program, Bruno Kessler Foundation, Trento, Italy

- One of 20 students selected internationally for Summer Research program with full scholarship to attend
- Analyzed data collected by CSES-01 (China Seismo-Electromagnetic Satellite) Mission focusing on critical aspects inherent to phenomena that affects Earth's ionosphere
- Worked closely with scientists, technologists, and experts in field of data science, visualization and AI

2022-08 - Current

● **STEM Mentor & Advocate**

Multiple, Fort Myers, FL

- Conduct STEM club at local Title 1 school performing STEM experiments and teaching robotics to middle school students
- Participate in STEM advocacy at national, state and regional levels engaging with elected officials to influence increased funding for STEM programs
- Mentor students globally in South Africa, Nigeria and Botswana

2023-07 - Current

● **Florida Director**

Step In STEM, Ann Arbor, MI

- Worked closely with organizational leadership and board of directors to guide operational strategy when forming Florida Branch
- Participate in sessions and conferences organized by organization
- Help with promoting and growing Florida branch

2022-06 - 2022-08

● **Volunteer**

Habitat For Humanity - ReStore, Fort Myers, FL

- Organize sales floor as per guidance from store manager
- Receive and process incoming stock and materials
- Provide customer service to internal and external customers



Education

2021-08 - Current

● **High School Diploma**

Fort Myers High School - Fort Myers, FL

International Baccalaureate Diploma Programme

- Ranked in Top 1% of class
- Extracurricular Activities: Robotics, Science Fair, Inventor's Fair, Congressional App Challenge, Congressional Award, Solar go-kart Challenge
- Honor Societies: NHS, Mu Alpha Theta, SNHS
- Clubs: Engineering Club, CS Club, SECME, Science Olympiad, DECA, and HOSA
- AP courses: English Language and Composition, Human Geography, United States History, World History Modern, Computer Science Principles, Computer Science A, Statistics, Biology, Physics C: Electricity and Magnetism, Physics C: Mechanics, Computer Science A, English Literature, Calc BC, Environmental Science
- College classes: Calc III, Calc II, Physics I



Summer Programs & Conferences



Summer Programs:

- LaunchX Entrepreneurship Program, Ann Harbor, MI July 2023
- Yale Young Global Scholars, Yale University, June 2023

Conferences Attended:

- National STEM Festival, Washington D.C., April 2024
- National Advocacy Conference, Washington D.C., June 2023
- Imagine Solution Conference, Naples, FL, Feb 2022, Feb 2023, Feb 2024
- Edison Awards, Fort Myers, FL, March 2022



Languages



English



Tamil



Spanish



Interests



Engineering



Programming



Recreational Soccer



Pickleball



Taekwondo