Dhruva Sharma

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Dynamic Team Captain 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 student inventor and researcher, showcasing a commitment to innovation and excellence in STEM.

KEY COMPETENCIES

Languages: Java, Python, C++, PHP, Arduino
Tools: OpenCV, Tensorflow, Vuforia, Fusion 360, Machine Learning
Technical: 3D-Designing, Prototyping, Building

VOLUNTEER/WORK HISTORY

Java The Hutts FIRST Tech Challenge, Fort Myers, FL   **Aug 2020 - Present**
Team Captain & Lead Programmer
- Set goals for season, lead team on-and off events, schedule practice sessions and organize community outreach events
- Build and strengthen the team of 12 students and 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

Lee County Department of Transportation, Fort Myers, FL   **Jul 2024 - Present**
Paid Intern
- Assist in traffic signal optimization by collaborating with experts on improving real-world traffic systems
- Contribute to research on flow efficiency

Webvalley Summer Program, Bruno Kessler Foundation, Trento, Italy   **Jun 2024 - Jul 2024**
Research Student
- 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

Multiple Locations Locally & Globally   **Aug 2022 - Present**
STEM Mentor & Advocate
- 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

Step In STEM, Ann Arbor, MI   **Jul 2023 - Present**
Florida Director
- 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

EDUCATION & CERTIFICATIONS
High School Diploma
International Baccalaureate Diploma Programme
Ranked in Top 1% of class

SUMMER PROGRAMS & CONFERENCES
- LaunchX Entrepreneurship Program, Ann Harbor, MI July 2023
- Yale Young Global Scholars, Yale University, June 2023
- National STEM Festival, Washington D.C., April 2024
- National Advocacy Conference, Washington D.C., June 2023
- Imagine Solution Conference, Naples, FL, Feb 2022, 2023, 2024