

# Daras Bhullar

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## EDUCATION

### Virginia Tech

Bachelor of Engineering  
Major in Computer Engineering;  
Cumulative GPA: 3.72/4.0;

Blacksburg, VA

May 2027

## WORK EXPERIENCE

**TCPWave Pvt Ltd** (DDI and ADC solutions for enhanced security, and efficiency for networks.)

Hyderabad, India

Associate Machine Learning Intern

April 2022 – June 2022

- Specialized in **DDI Software** and **Machine Learning**, mastering **Python** for anomaly detection and deep learning to process datasets and extract actionable insights through tailored solutions for high-profile clients, including **Dell** and **Synnex Corporation**.

## UNIVERSITY PROJECTS

### Diggeridoo Engineering Design Team

Member of electronics team competing at *Elon's Musk's "Not-A-Boring-Competition"*

Jan 2024- Current

- One of **12** selected out of nearly **400** international teams to build an innovative tunnel-digging machine.
- Optimized **high-voltage systems** and **Stewart platform mechanics**, configuring **industrial relays, breakers, contactors** and **motor drivers** for a groundbreaking hyperloop tunnel-digging machine.

### Autonomous Aerial Vehicles Engineering Design Team

Member of communications team competing at *AUVSI SUAS Competition*

Aug 2023-Current

- Designed and fabricated advanced autonomous drones focused on payload delivery, obstacle avoidance, and search and rescue, while conducting comprehensive testing to improve reliability, and safety.
- Pioneered advanced aircraft design and communication tech enhancements using **CAD/CAM** software.
- Integrated **LIDAR, infrared, and ultrasonic sensors** innovatively enhancing drone navigation and obstacle avoidance.

## ACTIVITIES

**IEEE Robotics Junior Einstein Track, YESIST 12**

Hyderabad, India

*3rd in South India* for project "*Synmod*"

Sept 2019

- Ideated and Produced a **multidirectional navigational system** for the blind using **ultrasonic sensors, microcontrollers(Arduino), vibration motors and buzzers**; which was acclaimed nationally.
- This groundbreaking initiative garnered financial backing from the **Central Board of Secondary Education (CBSE)**, a prestigious national-level educational board governed by the Indian Union Government.

**CBSE Regional Science Exhibition Fair 2019-20**

Hyderabad, Telangana, India

*Top 10* in the *Telangana state* for the "*Swachhta Dustbin*".

Oct 2019

- Designed an **advanced waste segregation system** leveraging a "smart dustbin" that utilizes moisture sensors, microcontrollers(Arduino), and precision servo motors.
- Secured a strategic collaboration with the **Greater Hyderabad Municipal Corporation (GHMC)** to **prototype, test and implement** the "Swachhta Dustbin" system across Hyderabad.

Programmer- [www.Spotigrade.net](http://www.Spotigrade.net)

Blacksburg, VA

Co-Founder

May 2023 – Aug 2023

- Launched spotigrade.net, a website dedicated to upgrading Spotify accounts to premium status at an affordable rate of \$5.
- Developed and launched it using **Vuse** programming language and the **Vercel portal**.

## ADDITIONAL

**Technical Skills:** SQL | Java | Matlab | Python | MS Basic | Arduino IDE | C++

**Languages:** Fluent in English, Hindi, Punjabi; Conversational Proficiency in Telugu and Urdu