

# Dominic Holifield

Mechanical Engineering  
Student

## Contact

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## Skills

### Robotics

Excellent

### CAD (Autodesk Inventor)

Very Good

### 3D Printing

Very Good

### C, C++

Very Good

### Java & Python

Good

### HTML & CSS

Average

## Interests

Skateboarding

Cycling

Hiking

Tennis

Spikeball

Music

Effective mechanical engineering student offering excellent skills in Autodesk and robotics. Highly educated with background working closely with successful engineering teams. Hard-working and a quick learner motivated to problem solve.

## Education

### **BS Mechanical Engineering** *Purdue University* | Aug 2020 – May 2024

GPA: 3.54

- Member of Purdue ACM SIGBots.
- Relevant Coursework: Multivariate Calculus, Differential Equations, O-O Programming, Linear Algebra, Thermodynamics, Mechanics, & Electricity & Optics.

### **Zionsville Community High School** | Aug 2020 – May 2024

GPA: 4.13, SAT: 1440

- Team Captain of VEX Robotics Team 7701T
- Relevant Coursework Completed: AP Computer Science A, AP Physics 1, AP Physics C, AP US Government, AP Microeconomics, AP Calculus BC, & AP Statistics
- Awarded AP Physics 1 Student of the Year, French 3 Student of the Year, & 4.0 GPA Award all 4 years

## Experience

### **Competition Robotics** *VEX Robotics* | Aug 2016 - Present

- Competed in the VEX Robotics Competition for 4 years on team 7701T and am now competing in both VEXU and VEXAI Competitions on team BLRS.
- Responsibilities include designing the robot through CAD and sketches, building the robot and its mechanisms using standard parts, machining, or 3D printing, programming the robot for both autonomous movements and operator-controlled movements, and competing against other teams regionally, nationally, and globally.
- Ranked 18th in 2019 and 29th in 2020 for individual skills out of roughly 10,000 global teams.
- Earned a total of 19 awards, 16 of which are from the past two years from 14 competitions.
- Won the 2020 Kalahari Classic, a multi-state event competing against over 150 teams.
- Qualified for the VEX World Championship the past 3 years finishing division semi-finalists in 2019 and tournament finalists in 2021.

### **Store Associate** *The UPS Store* | Aug 2019 – Aug 2021

- Work with over 100 customers per day to ship and pack items to UPS standards.
- Complete various tasks including printing, laminating, binding, typing, and designing documents, flyers, and business cards.

### **Purdue Undergraduate Research Expo** *Purdue VIP* | Jan 2021 – May 2021

- Worked with a team to develop a waypoint-based approach towards autonomous driving, using a convolutional neural network and simulations in Unity. Work was in part for the Indy Autonomous Challenge.