

Dominic Holifield

Mechanical Engineering
Undergraduate

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

Skating

Cycling

Hiking

Tennis

Spikeball

Music

Effective mechanical engineering student offering excellent skills in Autodesk and robotics. Highly educated with a 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: 3.51

- Minor in Computer Science.
- 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 2016 – May 2020

GPA: 4.13, SAT: 1440, 790 Math, 650 Reading

- 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

- Was the 2022 VEXU World Skills Champion competing against universities from around the world. Finished as division finalists in the World Championship Tournament.
- Competed in the VEX Robotics Competition for 4 years on team 7701T and am now competing in VEXU Competitions on teams BLRS & BLRS2 on Purdue ACM SIGBots.
- Responsibilities include designing the robot through CAD and sketches, building the robot and its mechanisms using standard parts, machining, and 3D printing, programming the robot for both autonomous and operator-controlled movements, and competing against other teams regionally, nationally, and globally.
- Earned a total of 24 awards, 21 of which are from the past three years from 17 competitions.
- Ranked 18th in 2019 and 29th in 2020 for individual skills out of roughly 10,000 global teams.
- Won the 2020 Kalahari Classic, a multi-state event competing against over 150 teams.
- Qualified for the VEX World Championship the past 4 years and have already qualified for the 2023 World Championship.

Store Associate *The UPS Store* | Aug 2019 – Dec 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.