Dominic Holifield

Mechanical Engineering Undergraduate

Contact

Address

West Lafayette, IN, 47906

Phone

317.832.5039

E-mail

dholifi@purdue.edu

Website

https://dholifield.github.io/

LinkedIn

https://www.linkedin.com/in/dominicholifield/

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

- Minoring 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*

- Worked with over 100 customers per day to ship and pack items to UPS standards.
- Completed 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.