

Nathan Varghese

Contact Me

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🌐 <https://portfolios.daytonstemschool.org/varghese.11>

Education

Dayton Regional STEM School Aug 2016–present

- Expected Graduation: May 2023
- 4.0 unweighted GPA

Certifications

ToolingU | SME Additive Manufacturing Credential, DRSS Sep 2021 – Jan 2022

- Completed 16 modules and passed the final exam as of January 2022
- Industry recognized
- Acquired knowledge in different types of additive manufacturing, materials used, the design process, how to operate machines, and safety standards

Honors

High Honor Roll Aug 2019 – present

- 4.0 unweighted GPA every quarter and year of high school

Leadership

Key Club Lieutenant Governor Apr 2022 – Mar 2023

- Oversee Division 4 West key clubs, eight in total, and provide resources for any of the clubs that need it
- Includes key clubs at Alter, Centerville, Northridge, etc.

Junior Leadership Dayton (JLD) Aug 2021 – Apr 2022

- Built leadership skills through service projects and visiting various non-profits in the Greater Dayton Area
- Met with community leaders including the new City of Dayton mayor Jeff Mims, State Board of Education Charlotte McGuire, and Health Commissioner Jennifer Wenzel

Students Lead Dayton (SLD) Fall 2019, Fall 2021

- Participated in a one-day leadership conference listening to different presentations from local vendors and community leaders and in breakout sessions
- Learned to network and took part in networking with school partners at the event

DRSS Student Ambassador Aug 2018–present

- Lead prospective students, parents, business partners, and educators from around Ohio on tours around the school showcasing curriculum, specific grade level projects, and answering questions
- Improve public speaking, professional, and effective communication skills

Experiences

CAMP Dosser Lab Assistant May 2022 – June 2022
Junior year internship

- Learned to run and maintain Dremel and MakerBot 3D FDM printers
- Learned to refill filament into printers, paper into vinyl printers, and wood/acrylic on the laser cutter
- Learned slicing software to edit student created CAD designs to print efficiently

OSLN Design Challenge, DRSS Nov 2021 – Dec 2021
Ohio STEM Learning Network Design Challenge
US Gov, Technical Reading & Writing, Honors Pre-Calculus

- Conducted extensive research, in a group of three, into a societal issue of our choice; lobbying
- Created daily meetings, minutes, and a memo outlining the group's project progress to the teachers
- Acquired feedback from experts in the field, including Kim Mortenson, a project proposal manager at KBR, a defense contractor
- Compiled data, created graphs, and created a proposal solution to the issue, and presented to the class

Science Fair, DRSS Oct 2021 – Mar 2021
Honors Biology

- Carried out a research project on aortic valve stenosis (AVS), and aortic valve replacement/repair (AVR)
- Compiled sources into annotated bibliographies
- Wrote a paper on AVS and AVR addressing topics such as possible treatments, similar illness, surgeries/operations, and solutions to AVR
- Passed school, county, and made it to state science fair with a score of Excellent

HTML & CSS Portfolio Project, DRSS Aug 2017 – present
STEM Foundations (6th–8th), Advisory (9th – present)

- Learned the coding languages of HTML and CSS to create a portfolio showcasing various projects, personal experiences, etc.
- Strengthened public speaking skills through end-of-the-year portfolio presentation to peers, parents, and teachers for a grade