

Vishal Chandra

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EDUCATION

University of Michigan, Ann Arbor, Class of 2025

- Relevant Coursework: Intro to Data Structures, Discrete Math, Intro Engineering: Drones

Concord-Carlisle High School, Class of 2021

- National Honor Society, Engineering Certificate
- Relevant Coursework: AP Computer Science, Arduinos/Intro EE, Linear Algebra, Calculus I-III

RESEARCH EXPERIENCE

Research in Mathematics and Geometry (11th-12th)

- Developed a new simulation of kaleidocycles – a class of ring linkages – adapted from a combination of past math and graphics literature for use in designing toys for children
- Research paper covering the novel work and its applications published in Bridges Math Art 2021 conference as first author

EXTRACURRICULAR ACTIVITIES

Current (interested):

- Michigan Sports Analytics, Michigan Aeronautical Science Association, Kappa Theta Pi Rushee

Student Body President (High School, 9th-12th)

- Led the development and planning of new school events
- Introduced online ordering for school merchandise

Robotics Team Software Developer (High School, 9th-12th)

- Software team captain for the 2020 and 2021 FIRST Robotics Competitions
- Gained experience working with sensors, motion control, embedded systems; mentored new members

VOLUNTEER EXPERIENCE

Discovery Science Museum, Volunteer (Jan-Dec 2019)

- Operated interactive exhibits and created a digital simulation of harmonograph tables
- Helped to foster a love for science in young museum visitors

TECHNICAL SKILLS

Proficient: Java, Python, Arduino, Processing, Git

Familiar: HTML/CSS/Sass/Javascript, C#, Dart, GLSL

Please see vishalchandra.com for personal projects

HONORS, AWARDS, AND SPECIAL RECOGNITIONS

USA Computing Olympiad, Silver Division (2020)

Mass Audubon Climate Justice Award (2019)

National Spanish Exam, Gold Medalist (2018)

HOBBIES & INTERESTS

Mathematical/Computer-Made Art, Graphics & Graphic Design, History, Mechanical Watches, Puzzles