





# Drew Steindl

My website <https://drewphi.github.io/>

96 Lee Drive, Southington, Connecticut   
860-539-6528   
asteindl@vassar.edu   
<https://github.com/DrewPhi> 

## Education

### VASSAR COLLEGE

AUGUST 2021 – EXPECTED MAY 2025

B.A. PURE AND APPLIED MATHEMATICS, **GPA: 3.9**

### UNIVERSITY HIGHSCHOOL OF SCIENCE AND ENGINEERING

AUGUST 2017 – JUNE 2021

**VALEDICTORIAN** – PRESIDENT'S UNIVERSITY SCHOLAR AWARD

DEAN'S EARLY COLLEGE AWARD – GRADUATED WITH THE MOST COLLEGE CREDITS OF THE STUDENT BODY

### CONCURRENTLY ENROLLED IN THE UNIVERSITY OF HARTFORD

COMPLETED 14 COURSES WHILE IN HIGH SCHOOL

## Experience

- **2023 – INDEPENDENT STUDY** - DESIGN AND CONSTRUCTION OF BIOMIMETIC MODULAR ORNITHOPTER TO STUDY EVOLUTION OF AVIAN FEATHERS
- **2023 – VASSAR URSI FELLOWSHIP** – RESEARCH ON HUMANOID ROBOTICS PERCEPTION AND ACTION CUSTOM ENGINEERING – 10 WEEKS – NSF FUNDED – REU
- **2022 – VASSAR URSI FELLOWSHIP** – RESEARCH ON THE GENUS DISTRIBUTION OF TWO-BRIDGE KNOTS – 10 WEEKS – NSF FUNDED – REU

#### MATHEMATICS COURSEWORK

- NONLINEAR DIFFERENTIAL EQUATIONS
- DIFFERENTIAL TOPOLOGY
- TOPOLOGY
- MATHEMATICAL LOGIC
- MODERN ALGEBRA
- REAL ANALYSIS
- ADVANCED LINEAR ALGEBRA
- NUMBER THEORY
- DISCRETE MATH 1 & 2
- MULTIVARIABLE CALCULUS
- DIFFERENTIAL EQUATIONS

#### COGNITIVE SCIENCE & COMPUTER SCIENCE

- NEURAL NETWORKS
- AGENT BASED MODELING
- PROBLEM SOLVING AND ABSTRACTION
- ENGINEERING AND COMPUTER APPLICATIONS

**SKILLS:** JAVA PYTHON C++ LABVIEW DOCKER NODE.JS  
MONGODB GIT MATLAB OPENCV DEPTHAI ROS2  
MICROROS ARDUINO REACT SVELTE NVIDIA 3D PRINTING

**CAD:** SOLID WORKS FUSION 360

- **CAPTAIN UHSSE 2017-2021 FIRST ROBOTICS COMPETITION FRC - TRAVELING THROUGHOUT NEW ENGLAND**
- **VASSAR CHEMICAL SOCIETY TREASURER & COMBAT ROBOTICS FOUNDER**
- **MASS PRODUCTION OF PPE FOR HOSPITALS IN COVID – CLICK ON LINK**
- **WEBSITE DEVELOPMENT FOR ZION LUTHERAN CHURCH**
- **WORKED WITH DR. ADAM GOODWORTH AT THE UNIVERSITY OF HARTFORD MAKING A VIDEO GAME TO HELP CHILDREN WITH CEREBRAL PALSY DEVELOP MOTOR CONTROL.**
- **TA PRINCIPALS OF ENGINEERING**

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### Awards & Recognition

UHSSE TRINITY BOOK AWARD • 2020 FIRST ROBOTICS DEAN'S LIST AWARD SEMI-FINALIST • CLASS OF 2021 MATHEMATICS SCHOLAR AWARD • HARTFORD SOCIETY OF WOMEN ENGINEERS • UHHSE ROBOTICS AWARD FOUR TIMES • VASSAR FILM FESTIVAL 1<sup>ST</sup> PLACE

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### Activities

Mathematics • Robotics • Computer Programming • Music Instruments • HS - Varsity Golf • HS - 1991 Robotics Team Captain - Build-Electrical-Programming-Management • CT Flight Academy • Vassar Chess Club • Math Club • Science Bowl • Model Trains • Table Tennis • Snowboarding • Zion Lutheran Church • Relay for Life • Bread for Life • Trumpet Lessons@Vassar • [Short Films](#) • [Pizza Reviews](#) • Autonomous Robot Design Competition

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