

# DENNIS KOH

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## EDUCATION

High School Conestoga High School  
(2018-2021) GPA: 5.05 / 5.0 weighted  
4.0 / 4.0 unweighted

### TEST SCORES

**SAT:** 1550 (Math: 800, Reading & Writing: 750)

**SAT II:** Math 2: 800, Chemistry: 780

**AP & College Courses:** *Past Courses:* Calculus AB, Calculus BC, Computer Science A, English Language & Composition, Physics C: Mechanics, Statistics, Chemistry, U.S. Government & Politics, Multivariate Calculus *Current Courses:* Literature and Composition, Computer Science Principles, Macroeconomics, Microeconomic, Seminar, Comparative Government, Physics: E & M, Linear Algebra, Biology

## RESEARCH EXPERIENCE

Bossone Research Enterprise Center

Drexel University

January 2020-present

- Performed spectrum analysis on underwater capacitive power transfer system
- Prototyped and experimented fresh-water double parallel plate inductive transfer configuration
- Research paper pending

Bradley Department of Engineering

Virginia Tech

August 2017-September 2018

- Investigated radio transmit self-interferer cancellation system
- Prototyped 2-GHz radio transceiver front-end with near 200 Tx dB cancellation
- Presented at multiple conferences and competitions and won multiple awards for my work

## LEADERSHIP & ACTIVITIES

Technology Student Association

President, 2017-Present

Organized weekly meetings; led tech learning sessions; 2-time state qualifier in 6 different events and expanded club roster from 5 members to 40 members

Computers for Kids

President, 2019-Present

Designed and implemented Conestoga High School's first PC building program; taught at weekly workshops about computer hardware and technology experiments/simulations; discussed about latest technology news; developed club website

Asian-American Culture Club

Secretary, 2018-Present

Organized weekly seminars about Asian-American culture & heritage; helped coordinate school-wide fundraisers and events; programmed club website

1640 FIRST Robotics

Conestoga High School Varsity Swimming and Diving, 2018-present

## WORK & VOLUNTEERING

Upper Main Line YMCA

Lifeguard, 2018-Present

Accumulated over 300 hours. Completed weeks of rigorous training and in-services to obtain CPR and lifeguard certifications. Responsibilities include responding to emergencies, maintaining pool, performing saves, first aid, and CPR.

Penn Graduate School for Education, University of Pennsylvania

Write4Change Research Fellow, October-December 2018

Helped research and develop a writing platform for youths in Greater Philadelphia Area with researchers from the Penn Graduate School for Education. Received \$150 stipend and interview.

Pixovo/Freelance Web Development

Co-founder, 2019-Present

Created Pixovo to assist local businesses and organizations by designing their webpage; programmed 10 web apps and other front-end sites

National Honor Society

Member, 2019-Present

Volunteer at multiple community events at Upper Main Line YMCA and various charity events. Tutor in peer tutoring system at school.

## AWARDS & HONORS

Crown Education Challenge International STEM

Semifinalist – 2020

Top 10% globally out of more than 1600 submissions from 63 countries

International Astronomy and Astrophysics Competition

Bronze Honor/International Finalist – 2020

Progressed through qualification and pre-final rounds in order to receive award in final round

Office of Naval Research (ONR) Naval Science

Award – 2019

Received this national award at the Delaware Valley Science Fairs for excellent research project

Institution of Electrical and Electronics Engineers

(IEEE) 3<sup>rd</sup> Place Award – 2019

1 on 3 recipients of this award at science fair

The Armed Forces Communication Electronics

Association 2<sup>nd</sup> Place Award – 2019

The Pennsylvania Society of Professional

Engineers Certificate of Excellence Award – 2019

The Delaware Valley Science Fairs, INC Certificate of Excellence Award – 2018, 2019

Delaware Valley Science Fair Category Award

Honorable Mention – 2018

Honorable Mention – 2019

National Merit Scholar Semifinalist – 2020

Chester County Science Fair 2<sup>nd</sup> place Award-2019