**EDUCATION University of Notre Dame** Notre Dame, IN

Computer Science and Honors Mathematics May 2022

GPA: 3.945

**Park Tudor School** Indianapolis, IN

GPA (UW): 4.00 | Class Rank 1/116 | SAT 1580 May 2018

**HONORS** **National AP Scholar** July 2018

**Honorable Mention 2018 Hesburgh Libraries Hackathon**

**Virginia A. Smith Top Academic Award (Park Tudor award)** May 2018

**National Merit Finalist** February 2018

**A. Malcolm McVie Service and Scholarship Award (Park Tudor award)** May 2017

**Cum Laude Society Member** April 2017

**EXPERIENCE**

**Learning Management Systems Developer** September 2019 - Present

**Class Projects**

Minesweeper on FPGA

Connect 4 AI using minimax and alpha-beta pruning

**Computational Methods for Discovery Driven by Big Data REU - University of Minnesota** Summer 2019

**Introduction to Engineering Systems I**

Controlled Descent (Team Member) Fall 2018

* Collaborated with three others to design and construct a “care package” capable of withstanding a drop of 15.67 ft while holding a 2 N weight without triggering a force sensor upon landing

Iterative Design (Team Member) Fall 2018

* Designed a picture frame with two others using SolidWorks for potential sale in the Hammes Bookstore
* Devised mechanisms for hanging the frame on a nail and for standing at an angle of 60-80˚
* Revised model considering feedback from Bookstore and peers, adding functionality while lowering cost
* Awarded most creative design for sleek and effective frame in the shape of ND monogram

**Robotic Football Club** Fall 2018-present

* Collaborate with fellow engineers to design, build, program, and repair more than a dozen robots to “play” football; robots are controlled by club members in a game very similar to American football
* Currently creating interface between user and internal states of robots using MQTT protocol in small team

**Senior Event Assistant at the Notre Dame Student Activities Office** Fall 2018-present

* Prepare and disassemble various venues for student events around campus
* Monitor ongoing events and ensure their smooth course
* Coordinate shifts, lead small group of coworkers, and serve as first contact for any issues during events

**Job Shadow at Indy Aerospace, Inc.** Summer 2018

* Observed and inquired into the work of Logan Walker, head of Sales and Business Development and Lead Engineer at Indy Aerospace, Inc.
* Learned the basics of SolidWorks and the aerospace engineering industry

**Global Scholars Project** Fall 2016-April 2018

* Completed a two-year research project investigating the United States’ recent shortage of STEM professionals and the United States’ relative shortcomings in STEM education when compared globally
* Reached out to and enlisted the guidance of a mentor, wrote a 60-page research paper on the aforementioned topic, and presented my findings to a panel of judges

**CyberPatriot Season X: Team Captain** Fall 2017

* Competed in cybersecurity competitions organized by the Air Force Association
* As Team Captain, organized team events and engendered interest, commitment, and competitive drive within the team
* Led the team to 2nd place finish in the state round, and then to 6th in the regional round

**Summer Job at Park Tudor Maintenance** Summers 2016, 2017

* Worked for two summers with Park Tudor Maintenance to promote general upkeep of campus
* Work responsibilities included mulching, weeding, cleaning, mowing, and other groundskeeping

**ACTIVITIES** Fisher Interhall Baseball St. Adalbert’s Elementary School Tutoring Math Club

Fisher Interhall Dodgeball App Club CS for Good Club

**SKILLS** Technology: Java, basic Python, SolidWorks, basic MATLAB, basic Arduino

Language: Intermediate Latin

Instrument: Cello, Piano