

Anh D Nguyen

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EDUCATION

Gettysburg College, PA | Bachelor of Science in Physics

Expected May. 2022

- GPA: 3.90/4.0 | Department GPA: 4.0/4.0
- Dean's Lists since for 4 consecutive semesters since Fall 2019.
- Activities: *Media Executive*, Vietnamese Students Association, *Guitarist*, Gettysburg Jazz Dispatch.
- Courses: Electricity and Magnetism | Intro to Thermodynamics and Stat Physics | Quantum Mechanics | Electronics | Differential Equations | Linear Algebra | Calculus | MATLAB |

PERSONAL PROJECTS

Issue Tracker (*MongoDB, Express, React, Socket.io*) | Full-stack developer

<https://mernissuetracker.herokuapp.com/>

June- Jul 2021

- Created an app that keep track of personal and team projects using the MERN stack. Users can create projects and add any other users as admin / participant and assign them to any issues.
- Built an Express backend which dealt with authentication and communication (CRUD) with users' projects stored in MongoDB, and a clean and responsive UI using React and Bootstrap.
- Implemented Socket.io to have real-time updates (such as being added into project) across users.

Covid Tracker (*React*) | Front-end developer

<https://dyannd.github.io/covidtracker/>

June 2021

- Created an app that provides real-time pandemic information of every country.
- Used React Axios to fetch data from public covid API and update the user's UI.

Laws of Motion (*HTML, CSS, jQuery*) | Front-end developer

<https://dyannd.github.io/LawsOfMotion/index.html>

May - June 2021

- Created an app that provides basic information about Newton's 3 laws of motion in an interactive manner, which aimed to gain viewers' interests in Physics.
- Used intensive jQuery and CSS to create appealing and interactive animations.

WORK EXPERIENCE

Physics Grader

Aug – Dec 2020

Gettysburg College | Gettysburg, PA

- Being a homework grading assistant for *introduction to Electricity and Magnetism* course – a required course for any Physics major pursuers.
- Together with the instructor came up with a rubric that is more effort-based than perfect-based, which urged students to do homework more effectively. Class average is around 85%.

Internship, CURE Undergraduate Experience

June - July 2020

Hampton University | Hampton, VA | Remote

- Independently conducting a research on atmospheric science, specifically studying the gravity waves' behaviors from Polar Mesospheric Clouds using data from NASA's AIM - CIPS Satellite.
- Applying Fast Fourier Transform to analyze different scales of quasi-periodic behavior of waves. Perform data analysis to derive the results.
- Results found was the unchanging behaviors of gravity waves between consecutive CIPS orbits if large-scales variabilities were considered. Reported using LATEX. and programmed using IDL.

Math Peer Learning Associate

Jan 2020 – March 2020

Gettysburg College | Gettysburg, PA

- Hold one class session a week to help students solving problem from *Calculus II*.
- Discuss with the instructors weekly to figure out the optimal and simple solutions for students.

LEGO Mindstorms Coach

June – Aug 2019

HCMC University of Science | Ho Chi Minh City, Vietnam

- Coached students of to use LEGO Mindstorms as a presentation of their project ideas (to be used in LEGO Robotacon national contest).
- Helped my team to achieve bronze medal (3rd prize) in Open Category with the S-Mart (smart supermarket) project.

ACHIEVEMENTS

Third Prize, Vietnam Intel Student Engineering Fair (VISEF)

Sep 2017 – Mar 2018

Vietnam

- Worked collaboratively on the project: Sixth Finger for Parkinson's Disease patients. Designed using Arduino UNO to read inputs from flex sensor to determine the tremor frequency of the patient.
- VISEF is a national scale version of Intel ISEF (Intel International Science and Engineering Fair), the world's largest international pre-college science competition. VISEF 2018 involves 200 teams of senior high-school group. Winners are chosen to participate in Intel ISEF.

SKILLS

Soft skills: Communication | Teamwork | Problem-solving | Adapting | Critical thinking | Time management | Organization |

Hard skills: HTML | CSS | JavaScript | React | Express | MongoDB | LATEX | MATLAB | IDL | Python 3 | Mindstorms