**Matthew Hwang**

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**EDUCATION**

**West Virginia University, Morgantown, WV** **Expected: December 2024**

* *Bachelor of Science in Aerospace Engineering*
* *Bachelor of Science in Mechanical Engineering*
* 3.71 GPA
* Relevant coursework: Multivariable Calculus, General Physics, Fundamentals of Chemistry, Statics, Introduction to Aerospace Engineering, Differential Equations, Mechatronics, Dynamics, Mechanics of Materials, Fluid Mechanics, Incompressible Aerodynamics, Intermediate Mechanics of Materials, Introduction to Electrical Engineering, Thermodynamics, Analysis of Engineering Systems

**University of Washington, Tacoma, WA** **August 2016 - August 2018**

* *Bachelor of Science in Computer Science*
* Transferred from Seattle campus, attended August 2­­013 – August 2016
* Relevant coursework: Web Programming, Discrete Math, Data Structures, Software

Development, Algorithms, Databases, Mobile Application Development

**WORK EXPERIENCE**

**NASA Katherine Johnson IV&V, Fairmont, WV September 2021 – January 2022**

*NASA Intern*

* Collaborated with 2 other interns and NASA employees and used system modeling tools such as

Magic Draw which is built upon SysML to create system models for the NASA Space Network that would be used to help detect security vulnerabilities and risks.

**Bureau of the Fiscal Service, Parkersburg, WV February 2019 – January 2021**

*IT Specialist (Application Software Developer)*

* Developed web applications and tests for them on the front-end team
* Utilized Atlassian project management tools and communicated with the backend team and

clients regularly to customize and improve the product as necessary

* Worked in an Agile environment primarily using the Angular framework

**RECENT SCHOOL PROJECTS**

**Piano Pedal Disability Assistance Mechatronic Device January 2022 – May 2022**

* Designed and created a mechatronic device in a group of 4 that would be capable of assisting someone with lower body impairment to enable them to utilize a piano pedal with the use of only their mouth.
* Responsible for the initial idea and design, SOLIDWORKS modeling, and coding the Arduino sketch via MATLAB and Arduino IDE.
* [**https://matthewhwang95.com/piano-pedal**](https://matthewhwang95.com/piano-pedal)

**Ribbed Balsa Wood Glider August 2021 – December 2021**

* Applied Aerospace Engineering principles as a team to design and build a glider made of balsa wood that can fly 50 feet.
* Contributed by designing the 3d model of the glider on SOLIDWORKS and cutting it out from balsa wood with a laser cutter before assembling.­­
* [**https://matthewhwang95.com/balsa-wood-glider**](https://matthewhwang95.com/balsa-wood-glider)

**SKILLS**

**Programming Languages:** Java, SQL, MATLAB, Javascript/Typescript, HTML, CSS

**Frameworks/Libraries/Software:** Angular, MagicDraw, GitHub, Atlassian Tools (Jira, Confluence, Bamboo, Sonar, Bitbucket), Microsoft Excel

**Engineering Skills:** Arduino, Basic wiring, SOLIDWORKS