Daniel Y. Zhang

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Education

Georgia Institute of Technology	**Atlanta, GA**
M.S. in Bioengineering	*August 2022 – Present*

B.S. in Aerospace Engineering, Certificate in Entrepreneurship	*August 2015 – May 2019*

- Studied abroad at the Hong Kong University for Science & Technology and the University of Limerick.

Research

Translational Neurotrauma Laboratory	**September 2022 – Present**

- Design and perform experiments for radiolabeled tracer glymphatic system study for thesis project.
- Perform animal experiments, surgeries, and injury induction.
- Utilized data science best practices to contribute to projects for PRE Clinical Interagency reSearch resourcE-TBI (PRECISE-TBI).
- Analyzed, visualized, and reviewed data and figures and proofread the foam study paper.
- Designed and assembled an Arduino velocity meter with a custom 3D-printed case for a closed cortical impact device.

Undergraduate Research	**May 2017 – July 2017**

- Analyzed NACA 2412 airfoil at various angles of attack by simulating fluid flow in Star CCM+.
- Designed airfoil with a lower drag coefficient than the NACA 23012 airfoil by reducing turbulence caused by adverse pressure gradients over the airfoil in XFoil.

Work Experience

Axis Group	**Atlanta, GA**
Associate Solution Consultant	*November 2021 – August 2022*

- Utilized business intelligence tools like ThoughtSpot to provide data modeling and analytics visualizations.
- Delivered solutions to clients through test and deployment, support and training, and identification of new opportunities.
- Collaborated with team members, including stakeholders, executives, designers, and data architects.
- Interacted with clients to gather requirements, understand problems, and deliver client presentations and critiques.
- Improved peers by sharing knowledge through training and webinars.

Lockheed Martin	**Patuxent River, MD**
FC/HQ Flight Test Engineer	*November 2019 – August 2021*

- Supported the CH-53K flight test program through design, analysis techniques, and testing control systems.
- Planned, conducted, and managed helicopter flight tests for flight controls and handling qualities.
- Briefed flight and ground crews and provided real-time telemetry support of critical parameters during flight testing.
- Analyzed and processed large volumes of flight test data and reported test results, conclusions, and recommendations.
- Worked and coordinated with other flight test disciplines, such as pilots, mechanics, and technicians.

Projects

Personal Portfolio Website	**May 2020 – Present**

- Created a portfolio website at danielyzhang.com from scratch using ReactJS, CSS, and JavaScript and deployed it on Heroku and Firebase.
- Applied principles of web design, such as planning, design, development, launch, and maintenance.

Skills

Programming & Software

- Arduino, CAD, CFD, Firebase, GitHub, Heroku, HTML, Java, MATLAB, Microsoft Office, PHP, ReactJS, SIMULINK, SolidWorks (CSWA Certified), SQL, Star CMM+, vPython, Web Design & Development

Laboratory

- Controlled Cortical Impact Device, Radioactive Material Handling, Stereotaxic Device, Striatal Injections