

Jacob Livianu

Seattle, WA | 718-548-4268 | jacoblivianu@gmail.com | www.JacobLivianu.com | linkedin.com/in/jacoblivianu

BIOGRAPHY

Jacob is a dedicated engineer with a passion for accuracy, precision, and the continuous pursuit of knowledge. With a strong background in both engineering education and professional experience, he has demonstrated his proficiency in project management and a keen ability to optimize processes. His diverse skill set, ranging from Design to CFD and Thermal analyses to Data Analytics, reflects his versatility and adaptability within the field of engineering. Jacob's commitment to efficiency and innovation is evident through his work, where he has successfully managed complex projects and streamlined workflows. He looks forward to leveraging his expertise to contribute to building a better future through innovative engineering solutions.

EDUCATION

City College of New York, Grove School of Engineering, Magna Cum Laude **New York, NY**
Bachelor of Engineering, Mechanical Engineering with a concentration in CFD, Aerospace, and Design *May 2022*

TECHNICAL SKILLS & INTERESTS

Technical Skills: CFD (Computational Fluid Dynamics), Thermal Analysis, Design, Data Analytics, Structural Analysis
Software: Ansys Suite (Fluent, Spaceclaim), MatLab, SolidWorks, C++, Microsoft Suite (Excel, Projects, Word, PowerPoint), SQL, Python, JIRA

Interests: 3-D Printing, Software Development, CAD, PC Building, Lacrosse, Tennis, Exotic Cars, Competitive Gaming

WORK EXPERIENCE

Boeing (The Boeing Company) **Seattle, WA**

Level 2 CFD & Thermal Analysis Engineer (ECS, Mechanical Design and Analysis Engineer) *July 2023- Present*

Level 1 CFD & Thermal Analysis Engineer (ECS, Mechanical Design and Analysis Engineer) *June 2022- July 2023*

- Conducts analyses which are integral in the development and continued support of new and in production aircraft. Conducted for both BCA (Boeing Commercial Airplanes) and BDS (Boeing Defense, Space, & Security).
- Multiple projects worked on in parallel requiring refined skills in time, collaboration, and priority management.
- Programs primarily utilized are The Ansys suite (Fluent, Spaceclaim, CFD Post), Thermal Desktop, AutoCAD, MatLab, Microsoft suite (Excel, PowerPoint, Project, Word), High Performance Computers (Linux).

JIRA Team Lead *Aug. 2022 – Present*

- Managed the project intake and definition of Quarters, Epics, Sprints, and Stories by implementing lean management, Sigma 6, and development of a secure database to protect sensitive data.
- Created a process used by 19 CFD/Thermal engineers to streamline analysis requests, improving request efficiency over ≈70% and reducing request completion time by ≈40%.

ASME (The American Society of Mechanical Engineers) **New York, NY**

President (CCNY Chapter) *May 2021– Aug.2022*

- Lead a team of three other board members to organize events to increase awareness of competitions, exposure, networking, and resources ASME provides for its members.
- Exponentially grew membership by 190% in ASME at CCNY by providing beneficial events and opportunities.

PROJECTS

VC-25B PAR Lead CFD Analyst (The Boeing Company) Sept. 2022 – Present

- Began conducting CFD/Thermal analyses and was assigned leadership of the entire SOW (Statement of Work) on the CFD team leading 3 additional engineers.
- Utilized MS Excel, PowerPoint, and The Fluent Suite to perform the required analyses (Steady and Transient) and MS Project to properly manage the entire SOW/resource utilization.

PDS (Product Development Systems) Wire Configuration Determination (The Boeing Company) Oct. 2022 – Jan. 2023

- Performed CFD & Thermal analyses to determine wire gauge, and configuration for compliance with parameters like location on airplane, proximity to components, and required insulation to mitigate structural temperatures.

General Dynamics Undersea Cable Deployment Active Impact Reduction System Aug. 2021 – June 2022

- Led a team of 6 to design and manufacture a testing apparatus for impact force reduction systems with electronics for data collection. Conducted preliminary calculations, CAD, experimentation, and data analysis.

Awards/Recognition

Boeing (Promotion to L2 in one year, Cash Award Q1 2023, Pride @ Boeing points), CCNY (Engineering Dean's List, Athletics Director's Honor Roll (Lacrosse), SAME Leonard S. Wegman Scholarship recipient)