

ARJAN VELOVIC

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SUMMARY

Ambitious aerospace engineer transitioning to software engineering, driven by a passion for growth and learning. Completed a rigorous full-stack engineering bootcamp at Coding Temple, showcasing proficiency in Python, JavaScript, React, and Flask. Eager to apply engineering expertise and coding skills to contribute effectively to the software development arena.

PROFESSIONAL EXPERIENCE

Design Engineer, Lockheed Martin Sikorsky Nov 2020 – Present

- End-to-end design processes for diverse products and assemblies, including drafting, dimensioning, tolerancing, prototyping and result documentation.
- Generate, review, and approve the technical content of controlled drawings, maintenance manuals, reports, and other mechanical design documents.
- Ensuring alignment of new products with program requirements through effective vendor collaboration and supervision of the products integration within the program's supply chain
- Collaborating within multi-disciplinary teams to resolve issues, fostering efficient problem-solving.

Mechanical Engineer Asc, Lockheed Martin Skunkworks Jul 2019 – Oct 2020

- Designed layout structures for pivotal mechanical system components using 3DX CAD.
- Developed detailed designs of mechanical structures adhering to structural and aerodynamic guidelines.
- Analyzed NASTRAN stress reports to redesign critical components for load requirement compliance.
- Prepared statements of work (SOWs), bills of material (BOMs), supplier document requirement lists (SDRLs), and other essential supplier contract management documentation.
- Coordinated vehicle system schedules to ensure an optimized engineering, procurement, and manufacturing workflow using MS Project.

Engineer Aide, Consolidated Edison Inc. Jan – Aug 2018

Mechanical Engineer Intern, NYC DEP – Water Treatment Plant Summer 2017

PROJECTS

Specialized Website

Developed a sleek full-stack website, mirroring Specialized Bike's commerce platform. It utilizes React TypeScript for the frontend and Flask Python for the backend, managing user operations, authentication, cart functionalities, and secure payments. Ensuring performance and security, the website delivers a seamless shopping experience, demonstrating proficiency in modern web development technologies.

[Live Demo](#) [GitHub](#)

Bidding Bazaar

Bidding Bazaar is an auction webpage powered by Flask, leveraging Python's capabilities for robust user interaction. Users can create accounts, list items, place bids, add watchlists and manage their profiles seamlessly. Behind the scenes, Flask handles authentication, session management, and database integration, ensuring a smooth user experience.

[Live Demo](#) [GitHub](#)

SKILLS

Languages: Python, JavaScript, Typescript, C++, SQL, HTML/CSS, MATLAB

Frameworks/Databases: React, Flask, Django, PostgreSQL, SQLite, MySQL

Computer Aided Design: 3DX, SolidWorks, CATIA, AutoCAD, NASTRAN, HSM, ANSYS

EDUCATION

Full-Stack Software Engineer Bootcamp, Coding Temple March 2024

MS in Mechanical Engineering, Georgia Institute of Technology Summer 2022
Highest Honors

BS in Mechanical Engineering, The City College of New York Fall 2018
Cum Laude Honors, Minor in Mathematics

CERTIFICATES

- New York State Intern Engineering Certificate – Engineering in Training 2019
- Active Department of Defense Secret Clearance 2019 – Present