


Jeff Salvant

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Portfolio: <https://www.jeff-salvant.com/>

Active Security Clearance

 <https://www.linkedin.com/in/jeff-salvant/>

Objective:

- I'm a new mechanical engineering graduate seeking an entry-level position to begin my career.

Education

Virginia Commonwealth University – Richmond, Virginia

May 2022

Bachelor of Science in Mechanical Engineering, Minor in Mathematics

GPA: 3.42

Technical skills

- Artificial Intelligence; 3D CAD; 3D Printing prototypes; Solid Works; MATLAB; ANSYS Finite Element Modeling Analysis (FEA); Siemens NX 12; Catia V5; Autodesk Inventor; Metal Part Design (SW); JavaScript; HTML; CSS; React.js; TypeScript; Node.js; Express.js; MongoDB; NoSQL; Jest; Java; VS Code; Webpack; Git; GitHub; Terminal; Microsoft Office Programs; Machining shop power tools; Arduino Microcontrollers (robotics design); Product Management Tools (Teamcenter);

Professional Experience

Northrop Grumman

Structural Design Engineer Intern

May 2021 – July 2021

- The objective was to create new engineering drawings representative of the retrofit installs/removals for the new electrical subsystems.
- Created drawings for part model designs using Catia V5 CAD software for manufacturing. Got exposure to materials and processing engineering (working with composites).
- Used Teamcenter product/project management tool to release completed engineering drawings per client's request.
- Attended weekly meetings to communicate with the cross-functional teams my progress.
- Completion of my project allowed for the manufacturing team to proceed with the removal of the old subsystems and install the new ones.

Neofect USA

Customer Support Intern

June 2019 – August 2019

- Communicated effectively with upset, confused, and curious customers until customer satisfaction. Provided great customer service to maintain & improve the company's relationship with its customers.
- As a salesforce admin, helped create different processes, reports, fields, list, and objects to enhance the company's system for developing their medical products. Also, solved different departments' issues to further aid in the company's efficiency.

Relevant Experience

Senior Design Capstone Project

August 2021 – Present

- Goal: Train the neural network with handwritten digits image from EMNIST database, Test the network with EMNIST test database with accuracy around 95%. Deploy the code into microcontroller with a camera setup. Process image of a handwritten digit and classify it with high confidence.
- Researched deep/convolutional neural networks (CNN's), brainstormed ideas on fulfilling the design requirements, developed a CNN code from scratch after testing and iterating the code until the code model could correctly classify handwritten digits (from 0 to 9) with a 95 % accuracy or greater.

Mechatronics

- Designed a robotic arm for sortation utilizing an Arduino microcontroller, actuators, ultrasonic sensors, and motion sensors.
- Programmed the robot to perform its task with C/C++ in Arduino IDE.

Software Engineering projects: *explore in detail on my portfolio or GitHub using provided links above.*

- **Shopping Cart:** Developed a dynamic routable e-commerce based React application.
- **Weather Forecast:** Created a weather application, made with React and OpenWeatherMap API.
- **Todo List App:** Designed an interactive to-do list application to help one achieve their daily goals.

Mechanical Systems and Design – Final Project

- Collaborated with my team of 3 on researching how to improve the urban infrastructure of South African beach. Communicated with each other very clearly, leading to great team chemistry.
- Utilized engineering design cycle to develop an effective beach rake design set to improve Cape Town's beaches, economically.
- Applied engineering design principles and critical thinking to successfully complete our design.

Leadership/Organizational Experience

National Society of Black Engineers

Freshman Representative

September 2018 – May 2019

- Presented, weekly, upcoming events for NSBE during general body meetings and lead activities for NSBE members to perform. As well as recruited new members for professional development.