RIYAD ALI

Carrollton, Texas | 4693461190 |riyad2ali@outlook.com | https://www.linkedin.com/in/riyad-ali-511a1b17a/ | U.S. Citizen

SKILLS

C, C++, Java, JavaScript, React.JS, Node.JS, Express.JS, HTML, CSS, MySQL, Git, Firebase, Heroku, Netlify, MATLAB, Simulink

PTC Creo Parametric, Abaqus, FEA, SolidWorks, Static Analysis, GD&T, CAD, Microsoft Office, MS Azure

Relevant Coursework: Data Structures and Algorithms, Database Systems, Computer Architecture, Discrete Mathematics, Linear Algebra, Probability and Statistics

PROFESSIONAL EXPERIENCE

Amazon Associate, Amazon | Dallas, Texas 05/2019 – Present

- Learned the importance of efficiency in a demanding environment.
- Became manager for front-end of warehouse controlling the flow of the building.
- Worked in a high-pressure area filled with short deadlines.
- Lead a team to control the outbound of the site with high efficiency.

Internship, Centerra | Carrollton, Texas 01/2017 – 06/2017

- Hands on experience working on automotive vehicles.
- Filled out paperwork with various companies to receive and send shipments of automotive parts.
- Insight on how inventory and invoices work.
- Organized entire filing system to produce maximum efficiency retrieving data.

PROJECTS

UTDesign - Automatic Rescue Breathing Unit | Engineering Team Leader | Java | Creo Parametric

- As of September 2021, **Provisional Patent 63/245,093** was filed.
- Utilized Java and C++ to create a efficient system to allow prototype to function flawlessly.
- Embedded software into controllers to react instantaneously to human interaction.
- Developed a unique identification system that automates the delivery of artificial respiration in CPR, in which collaboration and discussions of technical solutions were held with the team and technical manager.
- Implemented technology to decrease ventilator setup time by 40%.
- Became a part of a team of 6 students strong aimed at building a fully portable and automatic ventilator that would decrease the difficulty for first responders to perform CPR.
- This resulted in providing 98% accurate tidal volume tests that met American Heart Association (AHA) recommendations.

Supercharger Testing | MATLAB | Java

- Conducted testing procedures to learn about the Paxton Automotive N2500 Supercharger using MATLAB.
- Calculated the corrected mass flow rate and isentropic efficiency for each test with MATLAB to better depict compressor
- performance as a function of pressure ratio.
- Created and utilized a compressor map to better understand the isentropic efficiency.
- Identified where the supercharger will operate at the highest efficiency.

EDUCATION

University of Texas at Dallas 08/2017 – 06/2022

Bachelor of Science in Mechanical Engineering / Minor in Software Engineering