MEESUM ASHARY- SOFTWARE ENGINEER

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Full stack software engineering with a strong engineering background. Acknowledged for locating, diagnosing, and solving complex mechanical and software problems. Formulates technical articles and presentations to communicate clearly with colleagues and customers. Holds a Bachelor of Science in Aerospace Engineering from UC San Diego. Able to work remotely, in-office, or hybrid. Willing to relocate.

KEY COMPETENCIES & SKILLS

Python	HTML	Git and GitHub	Express	Full Stack Development
JavaScript	CSS	MongoDb	Node	Technical Documentation
React	BootStrap	Postgres	Terminal/CMD Line	SolidWorks
JAVA	MATLAB	Django	Mongoose	Agile methodologies

PROJECTS

JAVA-SPRINGBOOT AND REACT APP | MOVING CO. 07/2022

TEAM CONCEPT PROJECT: Lead a group of 3 developers to create a blog app that helps assist users in the moving process.

Key Competencies: HTML, CSS, JavaScript React, Axios , Postgresql, JAVA, SpringBoot

- Utilized Java to create a Backend Rest API with full CRUD functionalities and JWT authentication and Authorization.
- Designed control React components that signed up and logged in users. These users were configured to be authorized and create blog posts.
- Utilized CSS to make the app responsive and utilized semantic HTML to make App more accessible.

MERN STACK CRUD APP | GITZ CARLTON 07/2022

TEAM CONCEPT PROJECT: lead a group of 4 developers to create a portal for hotel employees that allows them to create new guests and assign them to hotel rooms.

Key Competencies: HTML, CSS, JavaScript, React, Axios , MongoDb, Express

- Designed controlled react components that creates, returns, updates and deletes guest data and allows user to assign a room to the guest.
- Utilized git, GitHub to collaborate with fellow contributors by using a mix of Feature Branch workflow and GitFlow workflow methods.
- Utilized CSS to make the app responsive and utilized semantic HTML to make App more accessible.

FRONT-END SPA REACT APP | MEESX 06/2022

SOLO CONCEPT PROJECT: MeesX is a react App inspired by SpaceX. This website was created using react and it utilizes a SpaceX API. The purpose of this website is to help the user learn more about SpaceX rockets and view details about latest launches.

Key Competencies: HTML, CSS, JavaScript, React, Axios

- Designed Single-Page React application that utilizes Axios to fetch and display SpaceX API Data
- Included 8 components and 2 forms of interaction by user: data displayed and styled by CSS.
- Utilized CSS to make the app responsive and utilized semantic HTML to make App more accessible.

EVTOL DESIGN 02/2021 – 06/2021

STUDENT PROJECT AT UC SAN DIEGO: Collaborated with four other engineers on the project proposal, and preliminary and completed design reviews. Presented each phase of project to panel of 89 adjudicators. Troubleshot issues related to configuration, narrowing it down to multirotor or tilt rotor configuration. Performed assigned weight analysis based on cruise efficiency, safety, cost, hover, and complexity of control to finalize decision.

Key Competencies: Matlab, Solidworks, Python, Teamwork, System Architectures, Technical Writing and Presentation

Developed eVTOL aircraft concept which was selected for submission to the AIAA EATS Student Design Competition

- Utilized Python and MATLAB to perform torque, parasitic drag, and wing and rotor sizing optimization.
- Researched collected configuration data, performed CAD, and conducted preliminary sizing analysis .
- Established aerodynamics prolusion architecture, generated 3D model, and delivered structural & cost analyses .

OBSTACLE AVOIDANCE ROBOT 01/2018 – 05/2018

STUDENT PROJECT AT IRVINE VALLEY COLLEGE: Designed and assembled autonomous robot. Modeled custom ultrasonic sensor mount in SOLIDWORKS and manufactured final design with 3D printer.

KEY COMPETENCIES: Coding, Innovative Solutions, Computer Science, Technology Integration, Electromechanical Expertise

Won 1st place among seven competing teams with development of small autonomous robot

- Combined 3D designed and printed components with off shelf components to assemble robot.
- Programmed robot control logic into Arduino using Embedded C software code.
- Tested robot on track, successfully completing 20m obstacle course in under 50 seconds.

PROFESSIONAL EXPERIENCE

ASML, CHANDLER , AZ 2021-2022

MECHANICAL INSTALL ENGINEER: Successfully completed 2 installs and power-on of ASML's Extreme Ultraviolet Lithography (EUV) Machine that consists of over 1000 components and 1500 Procedures.

KEY COMPETENCIES: Follow and modify Procedures, Troubleshooting, Electromechanical Expertise, Collaboration

Reduced the time of install by 2 days and Completed install without any safety near miss.

- Performed install of EUV Machine that consists of over 1000 components and 1500 Procedures.
- Calibrated chambers and installed all testing equipment and software .
- Recorded and updated modifications to installation procedures .

EDUCATION

GENERAL ASSEMBLY

CERTIFICATE OF COMPLETION – SOFTWARE ENGINEERING

UNIVERSITY OF CALIFORNIA, SAN DIEGO, CA

BACHELOR OF SCIENCE –AEROSPACE ENGINEERING