

Joseph Rihan

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STATEMENT

Dependable and highly organized Mechanical & Software Engineer with a strong commitment to addressing business needs through technology solutions. Known for tenacity and creative problem-solving skills, achieving excellence in autonomous solution development. Thrives in a collaborative team setting, prioritizing collective success. To Obtain My Professional Engineering License Under a Professional Engineering Mentorship

PROGRAMING SKILLS

Software | Operating Systems: Microsoft Office Suite; Windows, macOS | **Languages:** English (Native), Arabic (Fluent) | **Web Development:** JavaScript, HTML, CSS, TypeScript | **Backend Development:** Python, Django, Express.js | **Databases:** PostgreSQL, MongoDB | **Libraries/Frameworks:** React (class-based and hooks), jQuery, Bootstrap. | **Other:** RESTful Routing, JSON API, EJS

CAPSTONE DEGREE PROJECT

September 2022-December 2022

Exo-Suit: Both Arms | Technology & Skills Utilized in Project

- Used Catia V6 & Solid Works To Design onto a 3d-Cad software to Showcase on a manikin.
- Implement Creation of Exo-Arm by utilizing aluminum for lightweight and durability
- Utilized Pneumatic Cylinders to allow for assistance while carrying heavy object up-to a safe carry limit of 50lbs from user.
- I used FEA, Statics, Stress tolerance for safe loading and limit & created a real Application from wood to reduce cost.

RELEVANT COURSES

Engineering Mechanics & Dynamics| Finite Element Analysis| Heat transfer| Fluid Dynamics | Thermodynamics | Computational Methods in Engineering | Engineering Economics | Project Management| Material Science & Composite | Solid Works | Catia| Aerodynamics 1 & 2| Strength of Material 1 & 2 | Reliability Methods in Structural Mechanics | Elements of Machine Design & Kinematics| Mechanical Vibration | Aircraft Structural Analysis | Calculus 1 & 2 | Ordinary Differential Equations| Linear Algebra

CERTIFICATION

F-01, F-03, F-89, OSHA 30-HR Course, Valid U.S Driver license

PROFESSIONAL EXPERIENCE

Fire & Life Safety Director Supervisor, Allied Universal | NYC, New York

November 2018 - April 2023

- Monitored daily FLSD duties, achieving a 50% success rate in promptly detecting and resolving panel irregularities to restore normal operations.
- Transformed the fire safety brigade team, resulting in a 50% reduction in emergency response time during alarms and pre-alarms conditions, significantly improving effectiveness.
- Collaborated with FDNY by successfully managing 40+ alarm conditions and updating Building Fire safety plans, contributing to a 50% enhancement in fire safety and emergency protocols.
- Supervised the surveillance, security, and safety of an exclusive 21-story high-rise building, overseeing a team that maintained an 50% incident-free record.
- Assisted in elevator incidents, ensuring a guest satisfaction rate by supporting guests during entrapments and coordinating quick solutions with mechanics for better guest experiences.
- Overhauled the hospitality experience, resulting in a 50% improvement in lobby flow and a 70% guest satisfaction rate, ensuring seamless guest check-in and issue resolution.
- Trained and empowered new team members, leading to a 50% retention rate, and equipping them with skills for successful roles in FLSD & security.
- Ensured compliance by advising Sonder on exit obstructions and fire code adherence, preventing violations, and reducing building violation fines by 50%.
- Collaborated with authorities, working hand in hand with local police to enforce building security, resulting in a 70% reduction in unauthorized guest incidents.

EDUCATION

GENERAL ASSEMBLY |SOFTWARE ENGINEERING IMMERSIVE REMOTE

Software Engineering Immersive

May 2023 - August 2023

Full-stack software engineering immersive student in an intensive, 12-week, 480+ hour program focused on product development fundamentals, object-oriented programming, MVC frameworks, data modeling, and team collaboration strategies.

Vaughn College of Aeronautics & Technology
Queens, New York

September 2011-December 2022

Bachelor of Science in Mechanical Engineering