

John Samuel

Software Developer and Mechanical Engineer



Summary

I am a highly motivated and results-oriented Fresh Grad Mechanical Engineer with a strong background in software development. My experience applying mechanical engineering principles to solve complex problems has translated into a proven ability to learn new skills quickly. I am adept at working independently and as part of a team. My experience in multiple software development projects demonstrates my ability to leverage my mechanical engineering knowledge to excel in a broader technical field.

Experience

Mechanical Engineering:

- **Internship at ASGC Group (ETAPA MALL):** Conducted regular site visits to monitor the installation and functionality of MEP systems, Studied and presented the maneuvering process of transferring a 23-ton absorption chiller to the second floor, Presented the Refrigeration cycle to all the civil engineers to improve their knowledge.
- **Internship at Orascom (Monorail):** Observed the work environment and studied the advantages of the Monorail Project. I gained insights into project management and the benefits of modern transportation systems. This experience broadened my understanding of large-scale infrastructure projects and their impact.
- **Team Leader in my Graduation Project (Faculty of Engineering-New Administrative Capital):** Designed the main mechanical principles in Drain, Water supply, Firefighting, HVAC systems to be implemented by Orascom Construction company.
- **Team Leader in Pitch Control Mechanism:** Designed and implemented pitch control mechanism of a wind turbine to automatically adjust the angle of the blades to encounter the best benefit from wind energy including all stress analysis of all the mechanism parts.
- **Sustainable 100-feddan village in Siwa:** Designed full village with totally sustainable energy specifying the energy sources and energy mix without the need of grid energy (Solar energy, Geothermal, wind energy,...etc.).

Contact

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🔗 [LinkedIn-Profile](#)

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Skills

- | | |
|---------------|----------------|
| • Revit | • React JS |
| • AutoCAD | • JavaScript |
| • Inventor | • Bootstrap |
| • Solid Works | • Tailwind |
| • Ansys | • Material-UI |
| • Homer Pro | • Restful APIs |
| | • Node JS |
| | • Mongo DB |
| | • Python |
| | • Express |
| | • Git |
| | • GitHub |
| | • WordPress |

Software Development:

- **Frontend Technologies**: Proficient in React, JavaScript, HTML, CSS, and Bootstrap to create responsive and user-friendly web applications.
- **UI/UX Design**: Skilled in using Tailwind CSS and Material-UI (MUI) to design visually appealing and intuitive user interfaces.
- **RESTful API Development**: Experienced in designing and implementing RESTful APIs for seamless communication between frontend and backend systems using several databases like Mongo DB .
- **Backend Technologies**: Proficient in Node.js and Express.js to develop robust server-side applications and APIs.
- **Version Control**: Familiar with Git and GitHub for efficient code collaboration and version control.

Education

CURRENT

SENIOR II POWER MECHANICAL ENGINEER STUDENT, (ASU) AIN SHAMS UNIVERSITY
My current GPA is 3.00

2018-2019

HIGH SCHOOL GRAD, (SFLS) SAINT FATIMA LANGUAGE SCHOOL
Score: 98.2%

Certifications

ASGC GROUP INTERNSHIP, ETAPA MALL
ORASCOM INTERNSHIP, MONORAIL
PITCH CONTROL MECHANISM, UNIVERSITY
GRAD PROJECT (MEP CONSTRUCTION-UNIVERSITY), UNIVERSITY
PROFESSIONAL FRONT END DEVELOPMENT, UDACITY
ENGLISH CONVERSATION, AUC (AMERICAN UNIVERSITY IN EGYPT)

My Work

I have a strong portfolio of projects that showcase my expertise in both software development and mechanical engineering. You can view my work and explore the projects I've completed by visiting my portfolio in the following link.

[My Portfolio](#)