



Ziyad T. Alattas

M E C H A N I C A L E N G I N E E R

CONTACT INFO



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7671 Ash Sharqi - Jeddah, SA

ABOUT ME

- Strong background in mechanical design using programs and calculations.
- Goal oriented, dedicated, and an achiever.
- Enjoy working within a team.

SKILLS

- Ability to read, write and speak fluent English and Arabic.
- Capable of using the following engineering programs: ANSYS | SolidWorks | SolidCast | MATLAB | Simulink | GeoGebra | Arduino | DAC | Oscilloscopes | Oracle.
- Usage of MS Office (Word, Excel, PowerPoint, Project).

EDUCATION

Bachelor Degree in Mechanical Engineer

Milwaukee School of Engineering | 2015-2019- Milwaukee , USA

WORK EXPERIENCE

- Nissan Company as a manufacturing associate - Nashville, USA
| Feb. 2020 - Mar. 2021

ACHIEVEMENTS

Senior Design Capstone

Milwaukee School of Engineering - Milwaukee, WI

Project Goal: Reduce the overall weight of a Baja vehicle for competition without re-modifying the main components designed by the previous year's team.

- Successfully reduced the weights of the vehicle's firewall and the skid-plate by 40%:

- Completely disassembled the vehicle and carefully weighed individual components.
- Modeled the components using SolidWorks.
- Conducted necessary materials research.
- Conducted an ANSYS FEA test on components with the selected material.
- Performed in-lab impact tests to confirm FEA results.
- Communicated with companies to order materials within budget.
- Fabricated and assembled the parts back on the vehicle.
- Documented, prepared, and presented the project showcase.

Design Project

Milwaukee School of Engineering - Milwaukee, WI

Project Goal: Individually design a four-bar linkage light complicator system with multiple stages using Grashof's principles:

- Took measurements for the light switch dimensions and clearances.
- Designed a three-stage four-bar linkage system using Grashof's second condition.
- Simulated linkage movements in GeoGebra using bar measurements.
- Built a prototype to test the soundness of the design.
- Redesigned the system for smoother output of linkage movement.
- Built and presented the final model with desired redesign.