

Diaa E Alshubbar

Saudi Arabi – Dammam • 00966541848785 • Dhiya258@gmail.com • <https://www.linkedin.com/in/diaa-alshubbar/>

ENGINEER PROFILE

Enthusiastic recent graduate and entry-level engineer with capacity for innovative and creative problem solving.

- Self-starting and goal-oriented professional with strong technical knowledge base and work ethic, able to support multiple engineering projects simultaneously on schedule independently or as a member of a project team.
- Organized, resourceful collaborator with capacity to process and apply instructions, learn new concepts, and explain complex engineering applications in comprehensive manner.
- Conversant with creating engineering processes to increase productivity and controls through process improvement.
- Ability to execute projects, organize, schedule, and lead operations, implement equipment reliability metrics, and develop strong partnership with manufacturing departments.
- Confident using hand tools (torque wrenches, wire strippers, dremels, drills/tapes) and shop equipment (drill presses, handheld power tools).

Core Technologies

ADAMS (2019), ANSYS, AutoCAD, Autodesk Inventor, LabVIEW, MathCAD, MATLAB, SolidWorks, Microsoft Office Suite

EDUCATIONAL BACKGROUND

Bachelor of Science Degree in Mechanical Engineering (Minor Mathematics) – April 2020

Western Michigan University, Kalamazoo, MI

Coursework: Design of Thermal Systems, Machine Design, Control Systems, Instrumentation, Material Selection, Internal Combustion Engines I, and Vehicle Dynamics

English Language Diploma – April 2015

CELCIS, Western Michigan University, Kalamazoo, MI

Training: English Course, University of Sharjah, 2013 | English Certificate, Al Ezdihar Principle, Safwa, Saudi Arabia, 2011

Awards & Honors

Dean's List, May 2015

EXPERIENCE HIGHLIGHTS

Cascade Engineering Inc., Grand Rapids, MI (2020 – 2021)

Team Leader, March 2021 – June 2021 (Started doing the job Since Feb 2021)

Oversee break time, organize operators, make attendance for every shift, classify incident report, create work sheets for every order, and deliver special requests to the technicians. Arrange materials and components to run machines 24/7. Fix stacker machine/application and computer problems while facilitating operators. Hold full accountability for organizing and presenting component stock to operators. Supervise loading and unloading trailers by using forklift. Create end of shift report of every machine as well as add downtime and reason for downtime for machine for the management.

- Began tenure as Machine Operator and promoted to Team Leader position in recognition of achievement of excellence.
- Examined all work sheets in every press (machine) at the beginning of the shift, approved first piece of the job, and met requirement of the quality criteria.
- Ensured prevention of short or over run of tasks while adjusting count in every machine.
- Achieved defined targets at the end of every shift by running good parts in machines.

Machine Operator, July 2020 – March 2021

Examined and assembled a first piece cart at the beginning of the shift and placed in-front of the machine for quality check. Analyzed logo and serial number while delivering the cart. Analyzed job sheet of the job to ensure accuracy of running parts for the job. Successfully scanned, arranged, and packed good carts with bags for shipping. Inspected the pin to examine logo. Held full accountability for shaving all flash, wiping off oil and grease from the inside of the bin.

- Followed safety work standards while examining, assembling, and arranging carts.
 - Recorded scrap carts in the system for easier count in the job to track production line.
 - Ensured accurate diagnosis and swift resolution of issues related to stacker machine or the stacker application.
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PROJECTS

Autonomous Vehicle Instrumentation (Senior Project):

- Designed vehicle front rail attachment on which to mount radars and sensors resulting in a self-driving car.
- Oversaw application of engineering requirements, helped complete 3D diagram, and assembled beams by using saw machines and a grinder.
- Directed and completed projects while installing the rail for a successful outcome.

Coin Sorting Machine, Catapult, Heat Exchanger, and Four-Bar Mechanism (candy shooter) Design Projects:

- Supported various team projects in various roles, including creating and drawing coin sorting machine design capable of handling multiple coins, which involved measuring and delivering dimensions using SolidWorks.
- Created design for catapult project and candy shooter design in SolidWorks by defining prototype's motion path.
- Led research and calculations for heat exchanger and accomplished project by using engineering requirements.

Sincerely,

Diaa E. Alshubbar