## HAMZA IQBAL

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**OBJECTIVE** Seeking an internship in industrial engineering or in a related field for Summer 2020

**EDUCATION Texas A&M University (TAMU)**, College Station, Texas

Bachelor of Science in Industrial Engineering, Minoring in Engineering Project Management

*December 2020*

**TECHNICAL**  MS Excel Python C

**SKILLS** MATLAB VBA Solidworks

**WORK Fischer Engineering Design Center**, Texas A&M University

**EXPERIENCE** Student Technician(16 hours/week), *December 2018- Present*

* Facilitated the use of equipment by 100 students per shift
* Maintained an organized workspace for users of the design center
* Trained 3 volunteers and a new employee

**RELEVANT Large Scale Production System Design**

**EXPERIENCE** *April* 2019

* Devised a design concept for a car factory to maximize profit
* Ran a simulation based on the original design concept then made an enhanced plan
* Compared 2 simulations (one with each variation of the design concept)
* Developed a Gantt chart, Pugh chart, and process flow chart for a future plan

**Lifting Task Evaluation**

*March* 2019

* Observed a worker lifting a box and recorded data for analysis
* Computed the recommended weight limit and the risk of lower back injury
* Provided 2 recommendations to lower the risk of injury with a lifting index after applying each one
* Illustrated how each recommendation would change the task

**FAQ Chatbot**

*March* 2019

* Utilized 5 frequently asked questions from the ISEN department’s website for chatbot development
* Designed the chatbot to answer questions appropriately with conversational flow
* 27 different interactions possible
* Documented test chat sessions and modified design when improvement was possible

**Business Card Holder Design**

*February 2019*

* Developed 12 engineering characteristics from customer requirements
* Integrated features of prototypes from each person on the team to form the final product

**Lean Production System Design**

*February 2019*

* Identified 7 types of waste within a production cell along with possible countermeasures to reduce waste
* Collaborated with team members to form 8 design rationale that improved the cell layout and material flow
* Decreased the number of operators needed from 5 to 4

**ACTIVITIES Aggie Career Team**, January 2017 – Present

**Institute of Industrial and Systems Engineers**, January 2018 – Present