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| **HUSSAIN ALFARAJ** | **Linkedin Profile: www.HussainAlfaraj.com****Current Location: Michigan, USA** | **HussainAlfaraj@hotmail.com Cell: +1-(616)-448-9017** |

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| Skills & Core Competencies |

* ***Solidworks (CSWP),*** PTC Creo, Tableau, MS Project, Excel, PowerPoint; Analytical, Problem Solving, AutoCAD, and Ansys.
* Product Design and Development, CAD Designer, Project Management, Team management, Arabic, And Problem Solving.

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| Professional Experience |

***Research Assistant, TA, Tutor & Grader:* University of Michigan**  *July 2020 – February 2021*

* Conducted sessions, graded papers, moderated group works, provided guidance & sense of leadership to **100+** engineering students.
* Research in Particulate Multiphase Flow Characterization using Computational (CFD) and Experimental Fluid Dynamics.
* Worked as a tutor for Computer Aided Design, Math, Statics, and other engineering courses.

***operation manager:* Spicy Cook | Restaurant Chain in Saudi Arabia**  *May 2018 – March 2020*

* Saved the restaurant chain from bankruptcy and turned it into a successful restaurant chain.
* Re-designed the restaurants and merged them, which reduced the number of restaurants from 10 to 6 and increased production. This reduced the monthly rental cost by up to 40%.
* Re-designed the movement of workers in the restaurant. Which led to an increase in the production of each employee up to 15%.
* Agreement with new suppliers 20% material reduction.
* Used up to 90% of the delivery using motorcycles, whose price reaches $ 500 instead. Instead of using cars. This reduced the value of transportation and fuel by 90%.
* Reduced the wages by added devices to reduce production hours. Replaced 80% of the local employees with employees from other countries such as Yemen, Egypt, India, and Bangladesh to reduce wages up to 50%.
* Designed the menu to suit the customers' desires. And add offers for celebrations.
* Time management. Set annual goals and dividing them during the 12 months.

***Manufacturing & Process Engineer:* South China Bleaching & Dyeing | Hong Kong & China Based** *Summer 2015*

* Collected & analysed data to improve manufacturing processes, leading to reduced cost and increased efficiency during the internship.
* Led projects addressing optimal utilization of manufacturing processes, equipment, and systems by working cross-functionally as required to execute requirements; provided continuous improvement ideas for better process flow layouts to improve productivity.
* Learned and applied Lean and **Six Sigma** principles to eliminate the waste and non-value-added activity in the manufacturing process.
* Performed inventory management, generated work instructions, process control procedures, operating procedures, and process maps.
* Analysed and reported supply chain & logistics data; actively promoted plant safety and environmental procedures.

***Solidworks Drafter*: Saudi OGER in Saudi Arabia**  *February 2008 - October 2013*

* Generated and revised **2-D** and **3-D CAD** designs and drawings of derivative and non-derivative new products, line extensions, and other changes driven by process improvements.
* Ensured that ECR, ECO process runs smoothly, and all engineering models and drawings are updated appropriately.
* Provided guidance and leadership in the use of GD&T (ASME Y14.5-2009), stacked analysis, and documentation best practices.

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| Education & College Projects |

***B.S.E. Mechanical Engineering:* University of Michigan**

* **President**:ASME Student Section **| Senator:** Student Government **| Founder**:ASME Student Mentoring Program ***|*****Member**: SAE
* Created engineering leaders by mentoring & motivation; guided **200+** peers to be successful academically & professionally.
* Organized competitions, events, career workshops & industry tours (General Motors); initiated & led multiple Engineering Projects.
* **Graduation Project:** Charpy Bar Fixture- Purpose is to hold Charpy Bar while CNC Haas Machine cuts v-notches.
* **Manufacturing Project:** Table for all devices - purpose is to charge the devices and connect with the Wi-Fi, powered by a solar panel.

**ASME Projects:** Small-Load Combination Washer/Dryer – DriPod, Engine Cutaway Display Project, ASME Human Powered Vehicle Challenge (HPVC), Autonomous Carrier Robot ASME SPDC (Robotics) Competition Project, ASME IM3D **CAD** Competition Projects.

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| Honours, Awards & Scholarships |

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| * Scholarship from Ministry of Higher Education of Saudi Arabia
* ASME John & Elsa Gracik Scholar (2015)
* AACE International Scholar (2015)
* Victoria McKenze Student Govt. Council Scholar (2016)
* R. & E. Freeman International Student Scholar (2015 & 2016)
 | * University Honours Award Recipient
* Dean’s Listed
* Felipe Andrez Memorial Scholar (2014)
* Freeman International Studies Scholarship (2015)
* UM-Flint Study Abroad Scholarship (2015)
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