

Mohamed M. Hussein, MEng

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Qualifications

- Strong team collaboration skills. Working closely with team members to achieve project milestones.
- Excellent problem solving and analytical skills through dealing with problems with humans and operating conditions.
- Proven critical thinking skills through observation and brainstorming to solve problems and improve operations.
- Leadership and management experience at Amazon and on the undergraduate/graduate levels of education.
- Up to 9 years of strong Computer skills (Microsoft word, Powerpoint, Excel, Matlab, Photoshop, Illustrator, ANSYS, LaTeX).
- Programing skills using MATLAB for general engineering problems and EES for Thermodynamic problems.
- Exceptional technical writing skills acquired through writing plenty of academic reports and presentations.

Education

University of Guelph | Guelph, ON

Master of Engineering — Mechanical Engineering (course-based) (91%).

King Fahd University of Petroleum & Minerals | Saudi Arabia

Master of Science — Mechanical Engineering (3.95/4.00).

Thesis title: "CFD Modelling of Liquid Film Reversal of Two-Phase Flow in Vertical Pipes"

King Fahd University of Petroleum & Minerals | Saudi Arabia

Bachelor of Science — Mechanical Engineering Science. 1st class (3.92/4.00)

Final project: "Design of Thermoelectric Cooler/Heater for Domestic Applications"

Professional Experience

Floor Health Monitor/ ICQA PA | Amazon YHM1, Hamilton, ON.

Nov 21-present

- Managing 50+ ICQA associates across Amazon Robotics (AR) floor and counting universal stations.
- Monitoring the health of four AR floors, each 135x235 m², for optimal productivity and safe operation.
- Leading and coaching a team of newly hired Amnesty Floor Monitors showing top performance in floor health, resulting in up to 30% improvement in their response time and amnesty find rate.
- Governing the executing of IRDR counts, staffing counters, and coordinating with other departments.
- Performing safety audits internally and externally IB/OB and reporting safety issues to leadership.
- Training and mentoring L1 Leads and providing converge for other ICQA Process Assistants/Managers.

Amazon Warehouse Associate | Amazon YYZ2, Milton, ON.

May 21-Nov 21

- Inspected graded, and classified potentially damaged items according to Amazon standards.
- Showed top performance among packers in packing all types of items ranging from small to large items.
- Classified products allotted for donation for proper and safe shipping to the receiving parties.
- Taught ICQA associates the correct way of building large Hazmat boxes instead of the used incorrect way.

Graduate Teaching Assistant | University of Guelph, *Guelph, ON.*

Jan 19-May 21

- Taught and demonstrated in-person experimental labs and lectures before and after COVID-19 time, maintaining the safety with strict guidelines resulting in 0% infections.
- Lectured large groups of students (75 – 150 students at a time) with variety of instructional approaches and presentation methods.
- Evaluated students' performances on regular basis by designing assessment problems and grading their respective written reports, video reports, assignments, exams, and classroom activities.
- Resolved students' problems of marking, attendance, and understanding, and motivated them through recognizing the challenges they face throughout the course.
- Provided coverage for Professors in lectures.

Graduate Research Assistant | University of Guelph, Guelph, ON.

Jan 19-April 20

- Wrote progress reports and presented weekly updates of the progression of projects, and outlined plans and suggestions for the upcoming work and improvements.
- Adopted the implementation of the capacitance sensor in the study of the safety of nuclear power plants related to steam-water flow-induced vibrations of tube arrays.
- Designed experimental setup parts and assemblies using Solidworks and machined them using available machines (lathe, milling, saws, etc), tools, and 3D printers.
- Collaborated with lab researchers to identify critical conditions of single-phase flow induced vibration utilizing data collection and programming through Matlab and Labview.

Other Work

Competition Committee Manager | ME Club, King Fahd University of Petroleum and Minerals

Jan 15-May 16

- Managed designing engineering problems for undergraduate student competitions.
- Provided constructive feedbacks on problems designed by committee members.
- Encouraged students to solve problems and relate to real-world engineering applications.

Linkedin Certificates

- Management Foundations
- Operational Excellence Foundations
- Process Improvement Foundations
- Six Sigma: Green Belt