

# SAYED HUSAIN

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## EDUCATION

### **University of Leeds**

*MSc Mechatronics and Robotics Engineering (Eng)*

Classification: Marks will be released on NOV. 2024

Relevant Coursework: Sensing system / Osteoarthritis / wearable devices

Leeds, United Kingdom

2023 – 2024

### **University of Technology Bahrain**

*Bachelor of Science in Mechatronics Engineering (BSME)*

Classification: 3.6/4

Relevant Coursework: Sensing system / water tank algae prevention

Salmabad, Bahrain

2017 – 2021

### **University of Bahrain**

*Associate Diploma of Science in Electrical Engineering*

Classification: 3.2/4

Relevant Coursework: Sensing system / Security system

Isa Town, Bahrain

2004 – 2008

## WORK EXPERIENCE

### **Gulf Aluminum Rolling Mill**

*Trainee Process Engineer*

North Sitra Industrial Area, Bahrain

2021-2022

- Conducted data analysis on production metrics, identifying bottlenecks to reduced downtime.
- Collaborated with cross-functional teams to enhance quality control protocols, to decrease product defects.
- Participated in the development of Job Safety Practices (JSP), ensuring compliance with safety regulations and contributing to a safer workplace.
- Participated in material selection processes to enhance the quality of produced slabs, ensuring the use of high-grade raw materials to improved overall product integrity.

### **Gulf Aluminum Rolling Mill**

*Casthouse senior operator and acting shift supervisor*

North Sitra Industrial Area, Bahrain

2018-2020

- Implemented process improvements that enhanced the casting process, resulting in a 3% reduction in material wastage and lowering production costs.
- Trained new operators on safety protocols and operational procedures, contributing to decrease in workplace incidents.
- Led root cause analysis for production defects, successfully resolving recurring problems that reduced downtime and low production.
- Collaborated with maintenance teams to ensure equipment reliability, which improved equipments uptime.
- Prepared detailed shift reports and communicated effectively with management, facilitating better decision-making processes and operational adjustments.

### **Gulf Aluminum Rolling Mill**

*Quality inspector and control*

North Sitra Industrial Area, Bahrain

2016-2017

- Collaborated with production teams to identify and resolve quality issues, effectively decreasing product defects and improving overall customer satisfaction.
- Trained team members on quality standards and inspection techniques, fostering a culture of quality awareness and contributing to an improvement in team performance.
- Participated in internal audits and quality improvement initiatives, helping the plant achieve ISO certification.

### **Gulf Aluminum Rolling Mill**

*Packing and shipping coordinator*

North Sitra Industrial Area, Bahrain

2014-2015

- Coordinated all packing and shipping operations, ensuring timely and accurate delivery of products, which improved on-time shipment rates by 11%.
- Streamlined packing processes to reduce packing time while maintaining product integrity.
- Monitored inventory levels and managed materials for packing, which decreased excess inventory and optimized storage space.

- Collaborated with logistics providers to negotiate shipping rates, resulting in reduction in transportation costs without compromising service quality.
- Trained team members on packing techniques and safety standards, reducing product damage during transit and incidents.

#### **Gulf Aluminum Rolling Mill**

North Sitra Industrial Area, Bahrain

*Production planner*

2011-2013

- Coordinated with cross-functional teams, including sales, manufacturing and shipping, to align production plans with customer requirements and enhancing on-time delivery.
- Implemented process improvements in planning methodologies, which streamlined operations and reduced operational downtime.
- Trained team members on planning software and best practices, fostering a culture of continuous improvement and increasing team productivity.
- Prepared detailed reports for management on production schedules and resource needs, facilitating better strategic decision-making.

#### **Gulf Aluminum Rolling Mill**

North Sitra Industrial Area, Bahrain

*Rolling Mill Operator*

2009-2010

- Monitored equipment parameters and reported to regular maintenance checks, reducing equipment downtime and enhancing overall operational reliability.
- followed and suggested rolling processes based on experience, resulting in production increase.
- Collaborated with quality control teams to implement corrective actions for any operational issues, which led to decrease in quality reports QRs.
- Trained new operators in equipment operation and safety procedures, enhancing team competency.
- Participated in continuous improvement initiatives, contributing ideas that streamlined operations and improved safety standards, achieving a zero-incident safety record.
- Maintained accurate production records and reports, enabling effective communication with management and informed decision-making regarding production strategies.

#### **VOLUNTARY EXPERIENCE**

**University of Leeds**

Leeds, UK

*Research assistance*

Aug.-Oct. 2024

- Assisted in data collection for a knee and wearable device project using motion capture technologies, including VICON, IMUs, and Qualisys.
- Coordinated the setup and calibration of motion capture VICON, ensuring optimal performance during trials, which improved data quality.
- Documented experimental procedures and results meticulously, enhancing the project's research framework and providing a solid foundation for future studies.
- Engaged with participants during data collection, ensuring a smooth process and receiving positive feedback on participant experience, resulting in a 30% increase in volunteer retention for subsequent trials.

**Note:** For reference, this volunteer work is supervised by Professor Shane.

#### **IEEE International Conference on Mechatronics and Machine Vision in Practice (M2VIP)**

Leeds, UK

*Volunteer*

3<sup>rd</sup>-5<sup>th</sup> Oct. 2024

- Organized and coordinated all logistics for the M2VIP 2024 conference to ensure smooth execution of event activities.

## **SKILLS AND INTERESTS**

- **Computer proficiency:**

- Microsoft Office suite (Word, Excel, PowerPoint, Outlook).
- Data analysis software (MATLAB, Simulink).
- Motion capture system (Vicon, Qualisys).
- Programming software (C++, Arduino, CODESYS, Microchip Studio, Arm, GitHub).
- Designing software (AutoCAD, SolidWorks, FluidSIM, Multisim).

- **Languages:**

- English (Fluent).
- Arabic (Fluent).

- **Interests:**

- Sports and Fitness: Enjoy working out and walking.
- Technology and Innovation: Passionate about new technology and its applications.
- Volunteering: Actively involved in community service initiatives.