

MUAYAD HAMED ALABRI

Graduate Process Engineer | Chemical and Process Engineering

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PROFESSIONAL SUMMARY

Motivated Chemical and Process Engineering graduate from Sultan Qaboos University (2025) with hands-on internship experience in industrial maintenance and process safety within the Omani energy sector. Skilled in process simulation (Aspen HYSYS, Aspen Plus) and trained in H2S safety and HSE standards (OPAL-certified). Authored a senior capstone project on Blue Hydrogen Production from Flare Gas — directly aligned with OQ RPI's sustainability and energy transition strategy. Seeking a Graduate Process Engineer role at OQ Refineries and Petroleum Industries (OQ RPI) to contribute to operations across the Mina Al Fahal refinery, Sohar Refinery, and Liwa Plastics Industries Complex.

PROFESSIONAL EXPERIENCE

Engineering Intern — Maintenance and Asset Reliability

Port of Duqm Company (PODC) | Duqm Special Economic Zone, Oman

October 2025 – December 2025

- Gained hands-on exposure to large-scale industrial asset management within a strategically important Omani special economic zone, relevant to OQ RPI's asset reliability mandate.
- Participated in preventive maintenance planning and equipment troubleshooting, supporting continuous operation of critical mechanical and process equipment.
- Applied engineering principles to assess equipment condition, contributing to reduced downtime and improved asset performance.
- Developed understanding of maintenance management systems and turnaround planning — core competencies for refinery operations at OQ RPI.

Engineering Intern — Process Engineering and Safety

Falcon Wireline and Drilling Systems | Nizwa, Oman

June 2024 – August 2024

- Supported process engineering teams in operational planning and technical workflow execution within oil and gas field operations.
- Contributed to technical safety documentation including risk assessments, safe operating procedures (SOPs), and HSE compliance checklists aligned with OSHA-equivalent standards.
- Enhanced understanding of process hazard management, permit-to-work (PTW) systems, and safe working practices in hydrocarbon environments — core to OQ RPI's safety culture.
- Collaborated with multidisciplinary engineering teams, strengthening technical communication and cross-functional coordination skills.

Senior Capstone Project — Blue Hydrogen Production from Flare Gas

Sultan Qaboos University, Department of Chemical and Process Engineering | Muscat, Oman

2024 – 2025

- Designed and simulated a blue hydrogen production process from refinery flare gas using Aspen HYSYS, covering feed conditioning, steam methane reforming (SMR), and CO2 capture.
- Conducted techno-economic feasibility study evaluating CAPEX, OPEX, and NPV — demonstrating commercial and project viability aligned with OQ's energy transition goals.
- Quantified CO2 reduction potential and assessed sustainability impact, aligning with Oman Vision 2040 and OQ's decarbonisation strategy.
- Prepared and presented structured engineering reports and process flow diagrams (PFDs) to academic review panel.

Founder and Business Developer — MuayadFit

Personal Brand and Digital Business | Muscat, Oman

2023 – Present

- Built and scaled a digital health and fitness brand with measurable revenue growth, demonstrating entrepreneurial initiative, self-discipline, and commercial acumen.
- Managed B2B partnerships with major regional companies including Myprotein, Mazoon Dairy, and Atyab, involving contract negotiation and relationship management.
- Applied data-driven decision-making through audience analytics and content optimisation — transferable skills for KPI monitoring and process performance tracking.

TECHNICAL SKILLS

Process Fundamentals and Operations (University-level knowledge and coursework): Atmospheric and Vacuum Distillation (CDU/VDU), Fractional Distillation, Heat Integration, Mass and Energy Balances, Pump Systems (Centrifugal and Positive Displacement), Heat Exchangers (Shell and Tube, Air Coolers), P&ID Reading, Process Troubleshooting

Petrochemical and Refining Exposure: Polymer Processes (PP/PE/HDPE/LDPE), Aromatics and BTEX, Octane Improvement, Catalytic Reforming Fundamentals, Desalter Operation

Simulation and Tools: Aspen HYSYS (basic modeling and simulation), Aspen Plus, Microsoft Office Suite (Advanced Excel)

Safety and Standards: H2S Safety, HSE Management, PSM Principles, HAZOP Awareness, Permit-to-Work (PTW) Systems, Risk Assessment

Languages: Arabic (Native), English (Fluent — Professional)

EDUCATION

Bachelor of Science in Chemical and Process Engineering

Sultan Qaboos University | Muscat, Oman

2020 – 2025

- **Senior Project:** Blue Hydrogen Production from Flare Gas — techno-economic feasibility using Aspen HYSYS simulation, CO2 capture, and Oman Vision 2040 sustainability assessment.
- **Relevant Coursework:** Process Design and Simulation, Thermodynamics, Mass and Heat Transfer, Chemical Reaction Engineering, Plant Economics, Process Safety, Project Management.

CERTIFICATIONS

H2S Safety Training — OPAL (July 2024)

Health, Safety and Environment (HSE) Training — OPAL (July 2024)