

Hassan Ali

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PROFESSIONAL SUMMARY

- Graduate Mechanical Engineer coupled with six months of professional experience as a Process and Material Engineer in a highly fast paced environment at Pact Group Holdings Ltd.
- Possess strong technical, team management, administrative and organisational skills gained through as a Production Engineer, team leader of Dynamics section (racing car team) and hospitality.

Personal Strengths: innovation and creativity, analytical skills, problem solving, ability to execute, high motivation and enthusiasm for learning.

KEY SKILLS

- Computer Aided Drafting (Solidworks)
- Product Design and Development
- Mechanical troubleshooting
- Microsoft Suite packages (Word, Excel)
- Resource Enterprise Program (ERP)
- Customer Service skills
- Extrusion and Thermoforming
- Finite Element Analysis (FEA) (ANSYS)
- MATLAB and Simulink
- 5S System (Lean Manufacturing)
- Vehicle Dynamics
- Quality Control (QC) & Quality Assurance (QA)
- Standard Operating Procedures (SOP's)
- Leadership skills

PROFESSIONAL EXPERIENCE

Pact Group Holdings, Melbourne

2019 - Current

Junior Process and Material Engineer (Full-time)

Pact Group is the largest manufacturer of rigid plastic packaging products in Australasia and Asia. It supplies environmentally sustainable packaging products to leading companies such as Coles and MacDonald's.

Key responsibilities:

- Supervised and operated extrusion and thermoforming plant to manufacture polymer sheets and packaging products.
- Successfully created and tested the Standard Operating Procedures (SOP's) for three different extruders and sheet line extrusion of different brands that includes EREMA, SML and WALEX.
- Undertaking plant troubleshooting, optimisation and surveillance activities to ensure assets are operating safely and production is optimised daily.
- Ensuring that the Pact Group's OH&S, and Job Safety and Environmental Analysis (JSEA's) policy is accessible, and its provisions are implemented within all areas of operation in compliance with legislative WHS requirements.
- Took the initiative to introduce a well-designed induction training program for operating machines in collaboration with Paulson Training.
- Used Enterprise Resource Planning software, SAP, to monitor and maintain performance by developing control charts such as Upper and Lower Control Limit (UCL/LCL) & conducting Quality Control (QC) checks.
- Ensuring to implement and updating Standard Manufacturing Practice (SMP's) for all products types.

Achievements:

- Successfully converted my internship into full-time employment during the 6th week.
- Increased the productivity by 8% per shift by identifying problems such as extruder's melt pump and winder.
- Maintained Overall Equipment Effectiveness (OEE) between 85% and 95%.

EDUCATION

Swinburne University of Technology, Melbourne

2015 - 2019

Bachelor of Mechanical Engineering (Honours)

Final Year Project

In this individual project, I was responsible for project planning, overall design, calculating and compiling documents. I designed and conducted Finite Element and Failure Analysis to evaluate the feasibility and increasing suspension life of an electric vehicle by using programs such as Solidworks and ANSYS.

Achievements:

- Successfully increased the life cycle of the suspension system by 10% (250,000 to 275,000 km)
- Achieved a Distinction grade for my work.
- Published a peer review journal on Swinburne University of Technology's library website and researchgate.net.

Formula – SAE (Society of Automotive Engineers)

Swinburne University of Technology, Melbourne

2017 - 2018

Dynamics Design Engineer

Formula SAE is an international competition among students to conceive, design, fabricate and compete with formula-style racing cars in Australia and around the world. I was the leader of Dynamics section, which really enhanced my leadership, designing and technical skills.

Responsibilities and Achievements:

- Successfully managed a team of 8 members teaching them how to budget, design and produce an entire vehicle, manage sponsors and suppliers, and develop a long-term plan.
- Successfully recruited 5 sponsors such as Accurate CNC & Tyre Power worth \$8,000.
- Designed & optimised uprights and A-arms on Solidworks (CAD software) by conducting FEA on ANSYS and reduced 10% weight compared to previous year car.

VOLUNTARY EXPERIENCE

Swinburne University of Technology, Melbourne

2016 – 2018

Peer Mentor Leader

Peer Mentor program is an academic mentoring program for first- and second-year students to facilitate them in adjusting to university life. The Peer Mentor directs content areas based on the previous week's lectures and their personal experience

Key responsibilities:

- Co-introducing PASS and promoted the scheme to the Engineering Department and students.
- Designing activities, by regularly meeting with fellow leaders, for students to complete in groups to reinforce key materials each week.
- Facilitating autonomous learning within a group of up to 15 by encouraging team problem-solving, i.e. providing guidance, not answers.

PROFESSIONAL MEMBERSHIP

- Engineers Australia Grad | EAust 2019 - Current
- Society of Plastic Engineers 2019 - Current

REFEREES

Available on request