

VIKRAM SACHAN

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Analytical, organized, dedicated and detail oriented mechanical engineer with 5+ years of experience in CAD, CAM, CAE, CNC postprocessing and Robotics. Great knowledge in Product Development and Industrial robotics with an extra ordinary skill in Research and Development. Ability to perform several mechanical analysis tests from product research to its market deployment, solo or by leading a group. Vast knowledge of software like Solidworks, CATIA, Auto CAD, Pro-E, Ansys, Moldex3D, 3DExperience, etc.

EXPERIENCE

2023 – CURRENT

SR. R&D ENGINEER

ISSA, TAOYUAN, TAIWAN

1. Created (100+) CAD designs of several camera modules, camera modules testing jigs.
2. Worked in a team to create advanced Automatic Alignment machine under tight schedule.
3. Successfully completed several projects and still working on other projects parallelly.

2021 – 2023

SR. TECHNICAL SUPPORT

QINGTENG INTERNATIONAL, TAICHUNG, TAIWAN

4. Created (300+) CAD designs of several machine types of equipment, products and created their BOMs (like torque wrench, ISO verified machine equipment),
5. Simulated (152+) CAM processes (like turbine, soccer cup machining),
6. Conducted several CAE (10+) tests (heat analysis, breaking, FOS and yield point calculation),
7. CNC Post-processing (110+) of Fanuc, Siemens, Heidenhain, HAAS, Mitsubishi controllers.
8. Industrial Robotics programming (12+), Robot Simulation (5+), Robot Painting (2+), Robot Welding (Spot & Arc 5+), Robot Grinding and polishing (2+).
9. Learned several industrial robotic arms companies' software to support customers (Epson, Kawasaki, etc.).
10. Provided training to customers and colleagues in CAD, CAM, Postprocessing and Robotics.

Success Examples:

1. 1st individual to designed, assembled, programed, and simulated successfully industrial 9 axis robotic arm in 3DExperience.
2. Increased sales by quickly learning and implementing knowledge on customer site for CNC and industrial robotic arm.
3. Passed 20+ Dassault Systems exams to support company to sell software & licenses to customers.

Software Used:

- 3DExperience, CATIA (V5 & V6), ENOVIA, DELMIA, IMSPost, CNC and Robot simulators.

2019 – 2021

R&D MECHANICAL ENGINEER

HUANG LIANG BIOMEDICAL LTD.

1. Mechanical Engineer –
 - a) Learned Auto CAD and CAM (Solidworks).
 - b) Learned and Operated CNC 4.5 axis machine.
 - c) Completed company projects (OEM+ODM) as a product development engineer.
2. R&D Engineer –
 - a) Developed machines and methods for ISO mechanical tests on OEM products and improved OEM products quality.
 - b) Conducted research on OEM & ODM products and improved their mechanical properties under FEA and controlled full designing and manufacturing process and created BOMs.
3. Foreign Sales Engineer –
 - a) Wrote emails and letters for business development to foreign customers to increase sales.
 - b) Conducted several market research on OEM products.
 - c) Provided sales training and education programs.

Success Examples:

1. Got several positive feedbacks from customer within a month for business development.
2. Supported company not only hired position but performed best in other departments of engineering.

Software Used:

Solidworks, Ansys and MATLAB.

2015 – 2016

QUALITY INSPECTOR

FORD MOTORS

1. Checked incoming quality of the automobile parts.
2. Created several SOPs to confirm the quality check parts of the 'Ford' vehicle and verified BOMs.
3. Learned and used several DT and NDT tests methods.
4. Learned several quality checking tools (profile projector, vernier, multimeter, etc.)

EDUCATION

2016 – 2018

MASTER OF MECHANICAL ENGINEER, NATIONAL CHENG KUNG UNIVERSITY, TAINAN, TAIWAN

- Distinguished scholarship holder in mechanical engineering.
- Thesis (Optical Science) – ‘Fabrication and optimization of UV-LED homogenizer for DMDs’
- Software used – Solidworks, Zemax and MATLAB.
- GPA – 3.8/4.0

Software Used:

- Solidworks, MATLAB, Ansys & Moldx3D.

2011 – 2015

BACHELOR OF MECHANICAL ENGINEER, VEL-TECH UNIVERSITY, CHENNAI, INDIA

- Top 15 position holder as a mechanical engineer.
- Thesis (Optical Science) – ‘Fabrication and optimization of UV-LED homogenizer for DMDs’
- Software used – Auto CAD, Pro-E, Ansys and CATIA V5.
- GPA – 8.9/10

Software Used:

- Auto CAD, Pro-E, CATIA, Ansys and Abacus.

SOFTWARE SKILLS

- | | |
|------------------------|--------------|
| • Microsoft Word | • DELMIA |
| • Microsoft Excel | • ENOVIA |
| • Microsoft PowerPoint | • Ansys |
| • Auto CAD | • IMSpot |
| • CATIA V5 & V6 | • Solidworks |
| • 3DExperience | |

SOFT SKILLS

- | | |
|---------------------------------|---------------------------|
| • Analytical thinking. | • Creativity |
| • Flexibility. | • Leadership |
| • Project management. | • Organization |
| • Time management skills. | • Problem solving |
| • Communication skills. | • Teamwork |
| • Customer service. Scheduling. | • Self-driven & motivated |

CERTIFICATES

- Robotics Engineer.
- CAM Engineer.
- DELMIA Engineer.
- CATIA Engineer.
- Collaborative industry and business innovator.
- NC Programmer.
- CATIA
- Pro-E
- Auto CAD
- Ansys
- APMC (Asia Pacific Mechanics contest) 2017
- APMC (Asia Pacific Mechanics contest) 2018

ACTIVITIES & INTERESTS

- Riding Bikes
- Literature
- Travel
- Meditation
- Yoga

FAMILIER SOFTWARE

- Moldex3D
- Pro-E
- Abacus
- MATLAB
- Python
- Solidworks CAM

3DExperience Batches & Licenses–

