

# Swapnil Patil

## Mechanical Engineer

A Mechanical Engineer who believes in new product design and development of future technologies which is more sustainable and eco friendly with a vision to become a Team Lead in a tech firm.

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## WORK EXPERIENCE

### MECHANICAL DESIGN ENGINEER

Anemol Technologies Pvt Ltd

07/2020 - Present

Gurugram, India

#### Responsibilities/Tasks

- Designed Autonomous Robot by performing DFMA to satisfy client requirements of automotive industry.
- Modelling 3D parts, created assemblies, drawing files with GD&T and complete structural analysis.
- Simulated load analysis, kinematic and dynamic analysis for accurate movements of a robot.
- Performed DFMEA on current robotic designs to improve the mechanical properties of its structure.
- Worked with the cross functional team to meet project schedule driven goals and timelines.
- Additive Manufacturing of Robotic skeleton and outer cover to deliver optimized build quality for our client.
- Interacted with the customers, suppliers, manufacturing department for developmental activities as a proactive action.
- Research and Development of complex robot model designs aligned with company's vision.
- Worked on a continuous basis from RFQ to PPAP.
- Experience in Product Lifecycle Management (PLM) to convert client requirements into useful product.

### PROJECT TRAINEE

Rexroth Bosch India Pvt Ltd

08/2019 - 09/2019

Ahmedabad, India

#### Responsibilities/Tasks

- Responsible for manufacturing and machining process of pneumatic valves for higher accuracy.
- Worked as a Project Trainee in MOE Department to implement best industry practices.

## EDUCATION

### Bachelor of Engineering - Mechanical

Gujarat Technological University

08/2016 - 09/2020

Ahmedabad, India

CGPA

- 8.91/10

### HSC

Gujarat State Board - GSHSEB

06/2015 - 06/2016

Ahmedabad, India

Percentage:

- 82%

### SSC

Gujarat State Board - GSHSEB

06/2013 - 06/2014

Ahmedabad, India

Percentage:

- 83%

## SKILLS

SolidWorks

PTC Creo

AutoCAD

Design Thinking

Time Management

Troubleshooting

Team Leadership

Communication Skills

## PERSONAL PROJECTS

EFFICYCLE - SAEINDIA (National Level Competition)  
(12/2017 - 04/2018)

- Effi cycle is a hybrid tricycle that runs on human & electric power. It was launched at Eco Green Vehicle Challenge by SAE LDCE.
- Designed the three wheeled hybrid vehicle chassis, its assembly parts and drawing files for fabrication using Solidworks.
- Performed structural analysis of chassis using FEA, roll over analysis, front, side and rear load impact analysis in ANSYS.

## ACHIEVEMENTS

Gold Medalist in Product Design and Development issued by IIT Roorkee

Certified with Silver Medal tag in Inspection and Quality Control in Manufacturing issued by IIT Roorkee

Our team "Team Greenitious" awarded as Best Design Award and also remain as 1st runner up in Eco Green Vehicle Challenge 2018 organized by SAEINDIA

Certified by Dassault Systemes for Mechanical Design at the level of ASSOCIATE (CSWA)

SolidWorks Champion program member at Dassault Systemes

Certified Professional by Autodesk in AutoCAD

Six Sigma Green Belt certified from University System of Georgia

Certified in Foundations of Operation Management online course registered and designed by the Project Management Institute (PMI)

## LANGUAGES

English

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Hindi

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Marathi

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Gujarati

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