

# CHAITANYA PATIL

## MECHANICAL ENGINEER

+91 8484832722

6, GAJLAXMI ROW-HOUSES,  
LAXMINAGAR, MAHALE FARM, CIDCO,  
NASHIK, MAHARASHTRA, INDIA- 422009

chaitanyasp1341@gmail.com

www.linkedin.com/in/chaitanya-  
patil-932a87171/

## About Me

Mechanical Engineering graduate seeking an entry-level role as a Mechanical Design Engineer to apply CAD skills, creativity, and problem-solving abilities while learning and contributing to innovative design solutions.

## Education

(TILL - 2016)  
**NEW MARRATHA  
HIGHSCHOOL, NASHIK**

(2017 - 2019)  
**GOVERNMENT POLYTECHNIC,  
NASHIK**  
DIPLOMA IN MECHANICAL  
ENGINEERING

(2020 - 2022)  
**SMT. KASHIBAI NAVALE  
COLLEGE OF ENGG., PUNE**  
BE IN MECHANICAL  
ENGINEERING

## Skills

- AutoCAD MECHANICAL
- CATIA V5
- SOLIDWORKS
- CREO
- GD&T
- MICROSOFT  
OFFICE TOOL

## Work Experience

### ROTARY CAR PARKING SYSTEM

A rotary parking system (RPS) is a mechanical system designed to minimize the area that is required for parking cars. On the other hand, Rotary parking is known as "robotic parking garages", however, this technology is not used a lot in traffic engineering everywhere. Nowadays, with the huge increase in number of cars it becomes difficult to find a parking place; therefore, many countries such as Germany and Japan tend to build rotary parking systems in the areas near to the buildings and markets. The concept for automated parking system is driven by two factors:

- A need for parking spaces and
- A scarcity of available land.

### DESIGNS FOR CO2 LASER CUTTING MACHINE

This project involves Designing of various shapes, designs for CO2 laser cutting machine with precision. Including various layer setup for laser pressure and cutting. Also file conversion between cutting machine and AutoCAD.

### DESIGN AND STRENGTH IMPROVEMENT OF 4 WHEELER ROCKER PANEL

Vehicle side crash is a critical crash event. In side pole crash, vehicle rocker (sill) plays an important role in resisting the load due to the crash. The objective is to study the functional performance and potential mass reduction in the vehicle sill/rocker area by use of carbon fibre reinforced polymer (CFRP) tubes.

In this project investigates the behaviour of CFRP square section tubes in a three-point quasi-static bending in comparison to conventional steel structure using finite element method. By keeping the resistance force offered by a steel section as the baseline resistance value, different combination of CFRP tubes and metal holding brackets are evaluated and compared with the baseline. Design and analysis of existing Rocker Panel specimen will be done using CATIA R5V20 and ANSYS 19 software. new design & weight optimization of rocker panel specimen will be done using CFRP . Experimental investigation will be done by three-point bending test on UTM.

## EXTRA CURRICULAR

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- Content Designer In Mechanical Department Team For College Events in Engineering College.
- Charcoal Artist.

## CERTICATES

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- "Futuristic Automotive Systems" : Certificate Number: SRI-OT01-209140
- Participation in 1st International E-Summit 2020 on "Ai-ML" organized by Department of IT of Nagpur Institute of Technology, Nagpur : Certificate ID: NIT-IT-ESummit2020-2070