

# PARTH G. THAKAR

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## PROFILE SUMMARY

A Result-oriented Mechanical Engineer with experience as Design Engineer & Project Trainee can perform analytical calculations, product design & development, Finite Element Analysis. Ability to enhance components design, increase product & manufacturing efficiency and decrease the constant need for re-engineering. Seeking to leverage project management skills in the manufacturing sector.

## SKILLS & ABILITY

- ✓ Ability to create detailed design considering Design for manufacturing & Assembly and to create 3D models & manufacturing drawing as per mechanical standards/Codes using CAD tools (CREO/AutoCAD).
- ✓ Proficiency in Finite Element Analysis (FEA Software (Ansys/CREO Simulation)).
- ✓ Familiar with Geometric dimensioning & tolerancing (GD&T).
- ✓ Working knowledge of MS office products.
- ✓ Good verbal & technical report writing skills.

## RELEVANT WORK EXPERIENCE

### Design Engineer July 2018 – December 2018

#### Sadhrasya Soft Tech, Vadodara

- ✓ 3D modelling & manufacturing drawings of mechanical system/component using CAD tools.
- ✓ Product development/modification as per mechanical standards/codes.
- ✓ Analytical Calculations for the product design & development/modifications.

### Project Trainee (M.Tech Dissertation) May 2017 – April 2018

#### L&T Electrical & Automation Ltd, Vadodara

- ✓ Worked on Racking mechanism of draw out Air Circuit Breaker (ACB). The racking mechanism should be operated as low racking torque as possible to minimize human effort.
- ✓ Overall 48% reduction in racking torque is achieved by
  - (i) The Increasing entry radius of breaker adapter (12%).
  - (ii) Providing worm & worm wheel drive instead of racking screw (36%).
- ✓ Achieved 25% improvement in the life of racking mechanism as well as low wear by the redesign of rack & pinion.
- ✓ The existing design of riveted joints was analyzed for failure and the same was redesigned to improve the strength.
- ✓ Analytical calculation of existing design of racking mechanism was performed for racking torque requirement
- ✓ Development of conceptual alternative design.
- ✓ FEA of mounting channel of breaker & racking mechanism (existing/proposed concepts) using Ansys/Creo Simulation.

## Education

2016 – 2018	Master of Technology in Mechanical Engineering (M.Tech CAD/CAM) with <b>8.31 CGPA</b>   Nirma University.
2012 – 2016	Bachelor of Engineering in Mechanical Engineering with <b>7.63 CGPA</b>   Gujarat Technological University.
2011 – 2012	H.S.C. from GHSEB with <b>96.22 percentile (80.40%)</b>
2009 – 2010	S.S.C. from GSEB with <b>84.00 %</b>

## Academic Projects

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**M.Tech** • Study of existing racking mechanism of higher frame draw out type Air circuit breaker & improvement in its performance • **L&T Electrical & Automation Ltd, Vadadora** • May 2017 - April 2018

(Racking mechanism is used to engage & disengage breaker adapter with cradle terminal by manual operation using racking handle to carry current flow between them & ease of maintenance. The mechanism should be operated as low racking torque as possible to minimize human effort. The breaker adapter entry radius had increased, and worm & worm wheel drive had been proposed instead of racking screw, so resulted into 48% reduction in racking torque. The life of racking mechanism had improved by 25% due to the redesign of rack & pinion as well as the riveted joint of rail & drop plate.)

**B.E.** • To design & develop hydropower plant working on kinetic oscillating mechanism • May 2015 - May 2016

(Developed models of hydropower plant operate on linkage mechanism & hydrofoils. This model was able to generate power up to 10 kW in shallow water sites (e.g., canal) as well as at relatively low water velocity (1 m/s to 2 m/s)).

## Certifications/Achievements

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- ✓ Completed the course of **Lean Six Sigma Yellow Belt** & certified by **Gelrad LLC-USA**.
- ✓ Certified by **PTC University** on completion of **Creo Parametric** (Basic + Advance level).
- ✓ Achieved Gold Medal as institute topper during 1<sup>st</sup> & 2<sup>nd</sup> year of bachelor degree.
- ✓ Participated in a zonal round of **Robotryst-2013** competition organized by **IIT-Delhi**.

## Personal Details

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<b>Name</b>	: Parth Girishkumar Thakar
<b>Date of Birth</b>	: December 26 <sup>th</sup> , 1994
<b>Gender</b>	: Male
<b>Marital Status</b>	: Unmarried
<b>Citizenship</b>	: Indian
<b>Languages Known</b>	: Gujarati, Hindi, and English
<b>Present Address</b>	: E-205, 2 <sup>nd</sup> floor, Surbhi park, Shrihari township, Ajwa road, Vadodara, Gujarat-390025
<b>Permanent Address</b>	: “Shiv Sadan” Purabiya Street, Dhari, Gujarat-365640

## Declaration

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I hereby declare that the above written particulars are true to the best of my knowledge and belief.

**Place:**  
**Date:**

- **Parth G. Thakar**