# Bhavik Suthar
Business Analyst

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## Education

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| **Indian Institute of Technology, Bombay** | **Jul'17 - Jun'21** |
| *B.Tech* in Mechanical Engineering with **Minor** in Computer Science and Engineering | CGPA 9.1/10 |

## Technical Skills & Interest

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| **Programming** | SQL, Python, Power Query, VBA, Deluge Script, MATLAB, LaTeX |
| **Tool** | Tableau, Power BI, SSMS, Advance MS Excel, Microsoft Azure, Zoho Creator, P6 Primavera |
| **Interest** | Machine Learning, Data Analysis & Visualization, Digitization |

## Professional Experience

**Tata Projects Limited** | Manager - Project Controls                                         Mumbai, MH, India
*Driving Business Excellence with Digital Innovation, Streamlined Processes, and Data-Driven Advances*          Sep'21 – Present
SQL · ETL · Power BI · RCA · SSMS · SDLC · BPMN · KPI · ERD · DB Schema · Advanced MS Excel · MS Power Points

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|---|---|
| **Initiative - Phoenix** | • Performed **RCA** to uncover causes for delays in closing **300+ projects** and provided actionable solutions<br>• Created a detailed **project closure workflow** comprising **50+ elements** and a precise **RASCI** matrix<br>• **Implemented** an exhaustive **guideline** for seamless and uniform project closure phase across **6 SBUs** |
| **Corporate Project Controls** | • Transformed manufacturing plant operation visibility over **30 folds** through a dashboard with **25+ KPIs**<br>• Led the development of a **web & mobile** based tool for **tracking Daily Progress** across **100+** projects<br>• Designed a **Project Rating System** with **10+** execution & financial metrics, Built an analysis **dashboard**<br>• **Led** project controls for INR **9,000+Cr** worth of projects as a SPOC for the **Power & Metal** business unit |
| **Project Cost Controller** | • Monitored & forecasted Project **Cost and Billing** of an HRRL EPCC-04 DCU Project worth INR **2,200+Cr**<br>• Gained **12x** financial visibility by integrating **5+** system reports, **95% reduction** in calculation time<br>• Achieved an **80%** reduction in **analysis time** by automating the quarterly budget estimation process |

**Lear Cooperation** | Internship - IEC Seating                                               Pune, MH, India
*Strength of Material · Fatigue Analysis · Life Cycle Modeling (LCM) · ANSYS Structural*                    Apr '20 – Jun '20
○ Analyzed **ASTM A227** torsion bar for high cycle fatigue, using **23+ inputs** for predicting fatigue life and stress factors
○ Developed a **fatigue analysis tool** to predict the lift cycle of seat recliner torsion bars, utilizing the **Gerber** criteria

## Achievement and Awards

○ Received the **Centre Stage Award** at **Tata Projects** for contribution to the Phoenix Transformation Initiative     ['23]
○ Honored with **Institute Technical Special Mention Award** at IIT Bombay for exemplary technical performance ['20]
○ Secured **All India Rank 1272** in **JEE Advanced** out of 0.15 M and **99.8** percentile in **JEE Main** out of 1.18 M      ['17]

## Technical Projects

**Mars Rover Team IIT Bombay** | Suspension Design Lead                                        Apr'18 - May'21
*Build an interplanetary rover prototype for the international University Rover Challenge (URC) USA, featuring 90+ teams*
○ **Transformed** the design from a **4-wheel to a 6-wheel** rocker bogie differential drive. resulting in **4x** improvement in Factor of Safety (**FoS**) while reducing weight by **0.5kg** through the use of **Al 6061-T6** hollow square tube
○ Enhanced overall stability and achieved a **2x** increase in slope and obstacle climbing capacity for the **Hemant 1.0**
○ **Represented** the team at various tech expos and showcased the rover prototype at the **Tech & RnD Expo**

**Ornithopter** | Summer Undergraduate Research Program-IIT Bombay                            May'19 - Jul'19
*Build an ornithopter with 3+ meter wing span under the supervision of Prof. Arindrajit Chowdhury*
○ Designed main power shaft and motor supports, contributing to power transmission and stability of the ornithopter
○ Enhanced wing design by hollowing and reinforcing tips with Depron, oversaw manufacturing and assembly

## Extra-Curricular / Volunteer Work

○ Managed events like science and technical competitions, as Techfest-IITB's **Media and Publicity Coordinator**
○ Successfully completed a **one-year Yoga** training program under the National Sports Organization (**NSO**), India
○ Volunteered in Masti Ki Paathshala session arranged by **Abhyuday-IITB** to teach students of **ASHA NGO**