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| **RINKESH CONTRACTOR** | Los Angeles, CA 90066 |
|  (657) 253-9020 |  [rinkup34@](mailto:rinkup34@)gmail.com | [www.linkedin.com/in/rinkesh-contractor](http://www.linkedin.com/in/rinkesh-contractor) |

SUMMARY

More than **2+ years** of experience in Mechanical Engineering and Specialization in Mechanical Design, Structural Analysis and Developing Prototypes. Expertise in CAD software for optimizing complex parts, assemblies, simulation, and 2D & 3D design concepts. Analyzed concepts, designed, and built mechanical devices including 3D printing components, solar cells and automobile parts.

SKILLS

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| * AutoCAD, Autodesk Inventor | * Project Management | * Advanced Manufacturing Processes |
| * SolidWorks, CATIA | * GD & T (ASME Y 14.5) | * Material Science & Engineering |
| * ANSYS Workbench 17.1 | * Structural Analysis | * Six Sigma Methodologies, FMEA |

WORK EXPERIENCE

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| ***Mechanical Design Engineer*** | Jan 2019 – Current |
| TRU Architectural, Hawthorne, CA |  |

* Engaged in new product development of wireframed curved curtainwalls and custom sliding doors for high-end residential projects and commercial projects by generating 3D models from conceptual drawings.
* Currently involved in designing and maintaining industrial standards (AAMA) for commercial project’s scopes such as Retail shops, wind screens & formed aluminum used in curtainwalls for entire **300,000 sq ft** building.
* Created new design for panel (fiberglass pultruded material) in new ASS sliding door which gives **10%** reduction in U-factor in NFRC test results.
* Improved production documents and installation guide manual by using 3D model drawings, resulted in production efficiency by **20%** and assembly line efficiency by **25%**.
* Drafted process flow chart for engineering & fabrication department that maintained the quality of product by setting up strict metrics for non-conformance and assigning appropriate disposition techniques.
* Prepared QA Manual that complies with NAMI certification on quality of the products and collected supporting documents for yearly NAMI inspection.

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| ***Design Engineer and Supervisor*** | Jan 2015 – Nov 2015 |
| S. N. Enterprises Pvt. Ltd, Surat, India |  |

* Created machining processes using 6S Lean Manufacturing methodologies to increase manufacturing efficiency by **10%**.
* Produced CAD (AutoCAD) solid models of steel products, detailed drawings, layouts and BOM.
* Drafted work instructions journal, process travelers for each manufacturing process to support technicians and operators to decrease the downtime by **15%**.
* Interacted daily with customers, vendors, manufacturing team, and sales teams to ensure On-Time production.

PROJECTS

**Fabrication of Electrodes for Solar Cell using Additive Manufacturing** Aug 2017 – Apr 2018

* Designed and 3D printed Lead-mimicking Fractal design-based electrode for a low-cost solar cell.
* Worked closely on Fused Deposition Modelling (FDM) 3D printer to reduce fabrication and material cost.
* Analyzed I-V curve equation for fractal-based solar cell and improved **5 %** efficiency with respect to other 3D printed electrodes.

**Design and Finite Element Analysis of an Aircraft Landing Gears** Aug 2016 – Dec 2016

* Designed and performed von-mises stress analysis on aircraft landing gear using CATIA and ANSYS.
* Determined Factor of Safety from the applied boundary conditions for optimum load bearing capacity.

**Design Analysis of Light-weight Chassis** Jan 2016 – Apr 2016

* Analyzed different materials for chassis design to achieve 15% mass reduction using Autodesk Inventor.

EDUCATION

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| ***Master of Science*** *in* ***Mechanical Engineering*** | GPA: 3.67 |
| California State University, Fullerton | May 2018 |
| ***Bachelor of Engineering*** *in* ***Mechanical Engineering*** | GPA: 3.70 |
| Gujarat Technological University, Surat | June 2014 |