

Parth Koshti

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Bachelor of Science in **Mechanical Engineering**, *Purdue University*

May 2019

Technical Aptitude

Mechanical Engineering	Thermal Flow, Fluid Mechanics & Dynamics, Mechanics, Materials, Solidworks, CATIA, FEA, Machine Design, GD&T, Thermodynamics, DFMA, Structural Analysis, FMEA
Project Management	Risk Management, Cost Estimation, Workflow Design, ERP, Effective Documentation
Programming	MATLAB, Python, LabVIEW, HTML, CSS, JavaScript, React

Experience

Mechanical Engineer @ Eckhart USA

September 2020 - Current

- Designs automation solutions and tooling to replace or aid manual assembly and manufacturing lines, and test benches
- Performs thermal and mechanical analysis on systems and designs to ensure proper function and safety
- Integrates vision, robots, electromechanical, pneumatic and hydraulic systems into project designs to achieve desired performance within budgetary constraints
- Designs systems around safety and hazard standards and requirements
- PLM in Industrial Automation: Takes automation design projects from concept stage to turn-key completion

Associate Mechanical Engineer @ Eckhart USA

August 2019 – August 2020

- Worked as a part of a team that designs pneumatic mechanisms and fixtures for automated manufacturing
- Created and maintained drawing sets, Sequence of Operations and BOMs
- Supervised tool assembly and ensured project met scheduled deadlines.
- Employed ERP software to coordinate effort across teams for a smoother project flow.
- Identified team needs and implemented solutions for a smoother workflow and increased project margin

Engineering Team Lead @ Dana Inc.

January 2019 – May 2019

- Developed a planetary gearbox and emergency brakes used in Aerial Work Platforms
- Managed team schedule, project reports and documentation and customer satisfaction
- Analyzed project risks, managed budget and estimated costs, and successfully delivered project in 16 weeks

Design and Manufacturing Asst. Engineer @ Purdue University

January 2018 – August 2018

- Gained a lot of experience in DFMA and manufacturing and fabrication.
- Managed machine shop operations and optimized manufacturing schedules.
- Verified Formula and Baja SAE designs for manufacturability and taught DFMA to the teams.

Undergrad Research Assistant @ Zucrow Propulsion Lab, Purdue University

Dec 2016 – May 2017

- Research on fuel injection methodologies for subsonic jet engines @ Zucrow Propulsion Labs
- Processed high speed images of dispersing fuel droplets into 3D vector maps using MATLAB libraries
- Set up apparatus and processed sensor signals using NI LabVIEW and MATLAB

Mechanical Design Engineer @ SpaceX Hyperloop, Purdue Team

August 2016 – May 2017

- Worked as a part of the design team to design the competition pod
- Manufactured components using CNC and manual machining
- Molded Carbon Fiber Composite for reinforcing the pod's outer structure

Interests

Volleyball, Web Development, Photoshop, Research