

Parth Koshti

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EDUCATION

Purdue University

Bachelor of Science, Mechanical Engineering

West Lafayette, Indiana

Graduated May 2019

SKILLS & INTERESTS

Applications: Solidworks, ANSYS, MATLAB, Simulink, LabVIEW, Creo, HTML5, CSS, JavaScript, React, GitHub

Coursework: Heat and Mass Flow, Electronic Controls, Materials and Mechanics, Fluid Dynamics & Mechanics, Structural Analysis

Technical Skills: Cost Estimation, Risk Assessment, Industrial Robots and Sensor Integration, DFMA, DFMEA, FEA, GD&T

Other: Web Development, Volleyball, Stock Trading, Photoshop

PROFESSIONAL EXPERIENCE

Eckhart Industrial Automation Design Team

Mechanical Design Engineer

Columbus, Indiana

August 2019 - Current

- Concepted and developed fully automated system (\$700k) for manufacturing sunroofs for 2022 Mercedes-Benz electric cars
- Designed assembly benches and tooling (\$700k) for manufacturing subcomponents for shock absorbers for Fox Racing (CA)
- Developed automated machine (\$70k) to manufacture Fox Racing shock absorbers for 2021 Toyota Tacoma, Tundra and Sequoia
- Performed thermal and structural analysis on internal and external designs to ensure safety, and validation of supplier specifications
- Introduced new project flow method to team lead and general manager and implemented flow to make projects more efficient

Dana Inc/Purdue University Collab. Electric Braking System

Engineering Project Manager

Lafayette, Indiana

January 2019 – May 2019

- Researched and developed safety electric braking system for Aerial Work Platforms (scissor lifts, telescoping boom lifts, etc)
- Planned project life cycle, projected and documented risks, tracked team progress and managed budget under guidance of professional project managers and engineers
- Developed a sense for industry and professional interaction while working with engineers, technicians and leadership at Dana
- Experienced project life cycle in an industrial environment where project went from concept, testing, approval to manufacturing
- Advocated for and extensively used additive manufacturing for prototyping and testing

Zucrow Propulsion Laboratory Largest Academic Propulsion Lab in the World

Undergrad Research Assistant

West Lafayette, Indiana

December 2016 – May 2017

- Assisted research on fuel injection in subsonic jet engines in setting up experimental apparatus and developed problem solving
- Reviewed research and technical papers to gain insight into research methodologies, experimental setups and data processing
- Collaborated with career professors, post doctorate researchers and fellow undergrads and developed MATLAB skills
- Acquired team-based communication skills, data collection techniques, gained exposure to various research practices and fields

EXTRA CURRICULAR PROJECT: SpaceX Hyperloop Competition

Mechanical Design Engineer

Hawthorne, California

August 2016 – March 2017

- Concepted and developed designs for Hyperloop Pod, performed fluid and structural analysis on designs (CFD and FEA)
- Designed prototypes and executed plans for manufacturing, learned machining techniques under guidance of professional machinist
- Collaborated with and presented to 80 team members on 8 teams across two continents, developed effective communication skills
- Obtained first hand experience in forming Carbon Fiber and Kevlar Composites and designing molds for said composites

LEADERSHIP & DEVELOPMENT

Purdue University Undergraduate Teaching Assistant

ENGR 131

West Lafayette, Indiana

August 2016 – December 2016

- Helped plant and nurture the “engineering mindset” in class of 120 engineering freshmen by exposing them to learning techniques
- Closely worked with students and TAs from various cultures, and learned conflict resolution and problem solving
- Collaborated with professors to develop engineering skills such as Excel spreadsheets, basic programming, etc in students
- Presented to 120 students and gained precious insight into how to make presentations and learning more engaging and fruitful

Solidworks Tutor Independent Tutoring @ Purdue

September 2016 – October 2016

- Identified students with genuine interest in learning CAD and supplemented group lessons on Solidworks 3D modeling
- Implemented skills obtained as a TA for teaching methods and techniques used in concepting and developing designs over 4 weeks