

Contact

psayooj@umich.edu

www.linkedin.com/in/psayooj
(LinkedIn)

Top Skills

PTC Creo

SolidWorks

ANSYS

Sayooj Pillai

Senior Product Design Engineer at Cummins Inc.
Columbus, Indiana

Summary

Experienced Product Design Engineer with a demonstrated history of working with product design and manufacturing. Proficient in Six Sigma problem solving, 3D modelling(PTC Creo) and FEA(Ansys), GD&T, DVA, and Optimization(Minitab). Strong engineering professional with a Master's degree focused in Mechanical Engineering from University of Michigan.

Experience

Cummins Inc.

4 years 1 month

Senior Product Design Engineer

May 2017 - Present

Columbus, Indiana

Advanced Systems Design, Cummins Research and Technology

Product Design Engineer

February 2015 - April 2017 (2 years 3 months)

Columbus, Indiana

Advanced Systems Design, Cummins Research and Technology

- Concept Generation to Prototype Build
- Design Modelling and Analysis (FEA and DVA)
- Design for Manufacturing
- Supplier Interaction and Selection
- Develop Product Specifications and GD&T
- Product Platform Planning and Architecting
- Reliability Risk Management

Barton Research Group

Research Assistant

September 2014 - December 2014 (4 months)

University of Michigan Ann Arbor, MI

Design, Fabrication and Characterization of a Novel Hybrid, High-Resolution Printing Process and Prototype for advanced Additive Manufacturing application

Cummins Inc.

Internship

May 2014 - August 2014 (4 months)

Rocky Mount, North Carolina Area

- Improvement of Block line washer: Used Six Sigma problem solving tools
- Designed stop mechanism and pallet for the block
- Planned maintenance optimization for the engine block manufacturing line

Godrej & Boyce Mfg. Co. Ltd.

Project Trainee

July 2011 - April 2012 (10 months)

Mumbai Area, India

Process Improvement in Manufacturing of Marine Doors

- Improved and optimized various processes in the manufacturing of marine doors and hatches
- Designed assembling jigs and welding fixture to reduce distortion and cycle time

Education

University of Michigan

Master's degree, Mechanical Engineering · (2013 - 2015)

University of Mumbai

Bachelor of Engineering - BE, Mechanical Engineering · (2008 - 2012)