

ABHIMANYU SHARAN

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EDUCATION

Pennsylvania State University, GPA: 4.0/4.0

M.S. in Mechanical Engineering

Expected Dec 2023

University Park, PA, USA

- **Current Project:** Modelling of Electroluminescent Cooling
- Courses focused on: Fluid Mechanics, Heat Transfer, Mathematics and Numerical Methods.
- Also work as a **Graduate Teaching Assistant** for the Engineering Thermodynamics course.

PES University, GPA: 9.07/10.0

B.Tech. in Mechanical Engineering

2014 - 2018

Bengaluru, India

- Branch rank: 6. Received merit scholarship awards and distinction cash prizes every semester.
- Specialization in Thermo-Fluids Engineering and Minor degree in Electronics and Communication.
- **Project:** Analysis and Optimization of a Three-Fluid Cross-Flow Heat Exchanger using Finite Element Analysis and Genetic Algorithm (2 publications)

EXPERIENCE

Weir EnSci

Mechanical Engineer

Jul 2018 – Mar 2020

Bengaluru, India

- **Major Projects:** 3D Modular structure generation for crushers, screens and pump-set assemblies for the Engineering Automation and Plant Solutions teams. Won a "Star Team Member Award" for achieving a weight reduction of 42% for the Jaw Crusher module and 17% for the Vibrating Grizzly Feeder module.
- **Minor Project:** Centrifugal pump selection for slurry transportation along with piping layout design
- Helped train new members, prepared technical documentation of best automation practices of the Modular Plant Engineering team.
- Attended courses on Drawings and Standards, Lean Manufacturing, Geometrical Dimensioning and Tolerancing, innovation, manufacturing processes and more.

RECOUP Hospital

Consultant Ergonomist and Manager - Corporate Services

Apr 2020 – Dec 2021

Bengaluru, India

- Identified risk factors when remote computer users interact with their systems. Completed assessments for 300+ clients.
- Ergonomic workplace assessments of clients in the semiconductor research and food manufacturing industries
- Fixed tie-ups with new corporate clients and product vendors to aid business development

Toyota Industries Engine India

Intern

Jun - Jul 2016

Jigani, Karnataka, India

- Observed various CNC machining processes and the safety measures to be taken in the engine plant.
- Identified causes for coolant leakages in the cylinder head machining line and suggested control measures that helped reduce coolant loss by up to 25% per shift.

CERTIFICATIONS

- AMCAT Employability Certifications in **Business Analyst, Business Consultant, English Proficiency, English Comprehension and Data Processing Specialist** profiles.
- **Certified Ergonomic Assessment Specialist (CEAS III)** for Practice and Management of Occupational Ergonomics from The Back School, Atlanta.
- Coursera certificate courses in **Python, Applied Data Science, Django** (non-certificate), **PostgreSQL** (non-certificate) from University of Michigan, and **Machine Learning** from Stanford University.
- Software skill certifications on HackerRank for Python, Java, Javascript and Problem Solving.
- Certificate course on **Mechanical Vibration Analysis using Computing Techniques** from PES University.

SKILLS

Scripting	MATLAB and Python
Computer Aided Design	Siemens NX, SolidEdge, Autodesk Fusion 360
Numerical Computation (CFD, FEA)	Ansys, COMSOL
Interests	Mathematics, Thermal Sciences, Programming

PUBLICATIONS

- Jyothiprakash, K. H., Sharan, A., Harshith, J., Krishna, V., Seetharamu, K. N., & Krishnegowda, Y. T. (2018). **Combined effect of ambient heat-in-leak and longitudinal wall conduction on the performance of three-fluid cross-flow heat exchanger.** In 5th International Conference on Computational Methods for Thermal Problems (pp. 55–58).
- Jyothiprakash, K. H., Harshith, J., Sharan, A., Seetharamu, K. N., & Krishnegowda, Y. T. (2019). **Thermodynamic Optimization of Three-Fluid Cross-Flow Heat Exchanger Using GA and PSO Heuristics.** Thermal Science and Engineering Progress, 11, 289–301.
<https://doi.org/10.1016/j.tsep.2019.04.009>