

PRIYA RAMASWAMY

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PROFILE

Mechanical engineer with 7 years designing rotating equipment and thermal systems for industrial OEMs. Led cross-functional teams through FMEA, prototyping, and production launch on three product lines. Comfortable owning a design from concept through field warranty data.

KEY SKILLS

- SolidWorks, Creo NX
- ANSYS Mechanical and CFX
- GD&T (ASME Y14.5)
- DFMEA / PFMEA
- API 610, API 682, ASME B31.3
- Python for test data reduction
- Minitab
- DOE Supplier quality / PPAP review

PROFESSIONAL EXPERIENCE

Senior Mechanical Engineer

Brightline Turbomachinery, Raleigh, NC | February 2021 - Present

- Owned redesign of a 250 HP centrifugal compressor impeller; reduced unbalanced harmonics and cut field warranty claims by \$384,000 in the first year after launch.
- Ran ANSYS CFD and modal analysis to validate blade geometry changes before tooling spend, avoiding a second mold revision.
- Led an eight-person tiger team through root cause on a recurring bearing failure; corrective action stuck across three customer sites.
- Mentored two junior engineers through their EIT-to-PE study plans; both passed on first attempt.
- Reviewed supplier PPAP packages and pushed back on two non-conforming castings before they reached the assembly line.

Mechanical Engineer II

Halcyon Pump & Valve Co., Cary, NC | June 2018 - January 2022

- Designed seal chambers and shaft sleeves for API 610 pump line; took three SKUs from concept through hydrostatic testing.
- Cut machining cycle time on a flagship volute by roughly 18% by consolidating two ops and revising GD&T callouts.
- Built a parametric SolidWorks library that the team still uses for new pump sizing quotes.
- Co-authored the test protocol for a new API 682 seal flush plan; protocol became standard for customer FATs.

EDUCATION

M.S. Mechanical Engineering

NC State University, | | May 2018

B.S. Mechanical Engineering

Purdue University, | | May 2016

Licensed Professional Engineer (PE), North Carolina, 2022