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Objective

Proactive and result driven Masters level graduate student with experience in manufacturing. Seeking an entry-level position to leverage strong problem solving, technical, design, and leadership skills.

Skills

- Software Skills: Solidworks, AutoCAD, Robot Programming (Karel & V+), CNC programming, PLC Ladder Logic Programming(RSLogix 5000 & Studio 5000), Minitab, MS Office, Latex.
- Technical Skills: Lean Six Sigma, Lean Manufacturing (Kaizen, kanban, 5S, Takt Time) , New Product Development, Design of Experiments (DOE), Process Improvement (DMAIC), DFX, Six Sigma, Statistical Analysis (Hypothesis testing & ANOVA), FMEA, reading drawings and understanding of GD&T, Project Management.

Education

2014 - 2017 **MS, Manufacturing Engineering. GPA:3.2/4** Rochester Institute of Technology

2009 - 2013 **BS, Mechanical Engineering. GPA:7.7/10** BVB College of Engineering

Experience

06/'15 - 07/'16 **Robotics & Automation - Teaching Assistant** Rochester Institute of Technology

- Taught the fundamentals of programming robots, PLCs (Allen Bradley), Wiring I/O, and integrating PLCs.
- Graded assignments and assisted students in the Robotics and Automation course.
- Integrated work cells with Allen Bradley PLCs and COGNEX/iR vision systems.

02/'14 - 04/'14 **Design Engineer** Microfinish Pumps & Valves Pvt. Ltd.

- Designed (GD&T) and selected valve operating mechanisms based on application.
- Worked on cross functional teams to review existing designs of valve operating systems.
- Created and implemented valve component design using AutoCAD, and reduced machining time by 20%.

08/'13 - 01/'14 **Design Engineer (Development & Testing)** SRV Automations

- Tested and developed hydraulic components complying to the constraints of limited tank capacity, washer size and water jet power for a custom washing machine units for Caterpillar engine blocks.
- Used the actual engine block for mapping and placing water jets for the best possible cleaning and drafted using AutoCAD.

Projects

- Thesis: 3D Hybrid Model for New Product Development
  - The model employs iterative approach to facilitate innovative approach and risk management.
  - Addresses and aids NPD procedures, such as, understanding needs & technical requirements better, cost control & scheduling activities, testing & validation, cross functional approach & decision making.
- Society of Manufacturing Club
  - Designed (using Solidworks) and machined components for a prototype chocolate manufacturing cell.
  - Worked with local STEM school teachers to develop a curriculum around the cell to help aid students understanding STEM concepts.
- S'mores 2.0
  - Assisted the undergraduates' capstone project (S'mores Cell) with planning and integrating work cells with PLC (Allen-Bradley) and FANUC 200iC robot.
- Lean Six Sigma Simulation Project
  - Aim was to improve serving time of the SigmaBrew Coffee Franchise.
  - Achieved a 300% reduction in serving time, 12% ROI, and a Six Sigma level in this project.
  - Conducted hypothesis using Minitab and analyzed data using process capability, measurement system analysis (Gage R-R), regression, and ANOVA.