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Objective

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

Skills

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

Experience

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

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

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

- Designing (GD&T) and selection of 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.

Education

2014 - Present **MS, Manufacturing Engineering. GPA:3.2** Rochester Institute of Technology

- 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, and decision making.
- Society of Manufacturing Engineering Club
  - Designed and machined a prototype chocolate manufacturing cell
  - Worked with local STEM school teachers to develop a curriculum around the cell to help aid students understand STEM concepts better.
- 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 of the project was to improve serving time of the SigmaBrew Coffee Franchise.
  - Achieved a 300% reduction in service time, 12% ROI, and a Six Sigma level in this project.
  - Conducted hypothesis using Minitab and analyzed data using process capability, measurement systems analysis (gage R-R), regression, and ANOVA.

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

- Final Project: Vision system for AGV.
  - Built color guided vision system using Arduino processor.
  - Tested at SRV Automation facility and worked to partial fulfillment.