NATARAJ ASHOK MUNOLI

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SOFTWARE SKILLS

- Solidworks
- AutoCAD
- Robot Programming (Karel and V+)
- CNC Programming
- PLC Ladder Logic Programming (RSLogix 5000 & Studio 5000)
- Minitab
- MS Office
- Latex

TECJNICAL SKILLS

- Lean Six Sigma
- Lean Manufacturing (Kaizen, Kanban, 5S, Takt Time)
- New Product Development
- Design of Experiments (DOE)
- Improvement (DMAIC)
- DFX
- Six Sigma
- Statistical Analysis (Hypothesis testing & ANOVA)
- FMEA
- Reading drawings and GD&T
- Project Management

EDUCATION

MS, Mechanical & Manufacturing Systems Integration **2014 -2017**
Specialization - Manufacturing Automation **GPA: 3.2/4**
Rochester Institute of Technology, Rochester NY

BS, Mechanical Engineering **2009-2013**
B.V.B College of Engineering & Technology, India **GPA: 7.7/10**

EXPERIENCE

Teaching Assistant **06/15 - 07/13**
Robotics & Automation Lab
Taught graduate and undergraduate students the fundamentals of robot programming, PLCs (Rockwell Automation), wiring I/O, and integrating PLCs with work cells. Ensured seamless functioning of robotics & PLC lab by setting up and troubleshooting lab equipment, which included Fanuc LRmate, Adept, Cognex/iR vision systems, and Rockwell Automation PLCs.

Design Engineer Intern **02/14 - 04/14**
Microfinish Pumps
Actively engaged in a cross functional team to review and select designs of existing valve operating systems. Designed different valve components using AutoCAD.

Design Engineer Intern **08/13 – 01/14**
SRV Automations
Successfully developed and tested hydraulic components complying to the constraints of limited tank capacity, washer size and water jet power for a washing machine unit for Caterpillar engine blocks. Used the actual engine block to map place the water jets for best possible cleaning.

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.

Projects

Candy Manufacturing Cell (STEM Education)
Designed components and layout, 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 manufacturing undergraduate capstone project (Automated S'mores Cell) with planning and integrating work cells with PLC (Rockwell Automation) and FANUC 200iC robot.

Lean Six Sigma Simulation Project
Aim was to improve serving time of the SigmaBrew CoffeeFranchise.Result achieved was 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.