NATARAJ ASHOK MUNOLI

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PROFESSIONAL EXPERIENCE

Associate Manufacturing Equipment Engineer   02/2020-Present
Tesla, Inc. – Gigafactory 1, Sparks, NV, USA.

Implemented process upgrades on production lines for Tesla Energy team which directly resulted in OEE improvements. Worked with external vendors to integrate multiple aspects of automation from electrical and mechanical components, PLC programming (Siemens), and machine vision.

Acting as a POC for other internal teams to help carry out improvement projects and fire-fighting issues.

Associate Equipment Engineer   06/2018-12/2018
Tesla, Inc. – Gigafactory 1, Sparks, NV, USA.

Supported production and implemented process changes through PLC program changes to improve the OEE of the conveyance system (Common components, internally and externally sourced including, but not limited to Allen Bradley, Fanuc, Keyence, and Cognex) and make it more robust.

- Ignition (HMI) improvement roll-outs integrated with PLC to help troubleshoot issues quicker and make the HMI more user-friendly
- Created SQL queries to proactively learn the system performance, attack the issues, and roll out fixes before the issue made a major impact on the production and helped drive the uptime initiative projects.
- Helped with implementation of new processes which integrated multiple aspects of industrial automation including Fanuc and Allen Bradley.
- Acted as a point of contact for in depth troubleshooting of various custom equipment.

Inside Sales Associate Intern   09/2017-05/2018
Microfinish Valves, Houston, TX, USA.

Managed inventory by tracking and testing the incoming valves from the manufacturing facility. Helped to manage and keep-up with increased inquiry and sales by producing professional quotations using systems tools and templates through QuickBooks, and managed Customer orders thru shipment.

PROJECTS

MUNICH (MUNoli Innovation Center Hubli - www.i-Invent.org/munich)   03/2019-Present
Heading the MUNICH initiative to develop an innovative train of thought in the next generation. MUNICH is focused on innovating a curriculum ingraining automation, robotics and AI projects in the current curriculum.

Candy Manufacturing Cell (STEM Education)-RIT SME Chapter   08/2015-05/2016
Designed components and cell 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-Undergraduate Capstone   08/2015-05/2016
Assisted the manufacturing engineering students' undergraduate capstone project (Automated S'mores Cell) with planning and integrating work cells with PLC (Rockwell Automation) and FANUC 200iC robot.

EDUCATION

MS, Mechanical & Manufacturing Systems Integration | Rochester   2014 -2017
Institute of Technology, Rochester NY

BS, Mechanical Engineering | B.V.B College of Engineering &   2009 - 2013
Technology, India

THESIS

3D Hybrid Model for New Product Development

Proposed a new model for New Product Development process that employs iterative approach to facilitate innovative approach and risk management.

AREAS OF EXPERTISE

- PLC Programming – Rockwell, Siemens
- Robot Programming - Fanuc
- Reading electrical drawings
- Developing MI and PM for custom equipment
- Ignition
- Scripting – Python, SQL
- Design & fabrication of custom parts
- Statistical Analysis
- Solidworks, AutoCAD
- Training/ mentoring
- Sensors, vision system
- Arduino