RIJUTA N. DIGHE

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EXPERIENCE

SR. ROBOTICS ENGINEER, PHOENIX INNOVATIONS LLC **(SEPT 2020 – PRESENT)**

WAREHOUSE AUTOMATION PROJECTS (OPERATIONS AUTOMATION) – SMART CONVEYOR, SMART POD, POUCH PACKAGING MACHINE, AUTOMATED STORAGE AND RETRIEVAL SYSTEM (ASRS)

- Implemented a comprehensive conveyor automation system, integrating two cell phone cosmetic grading machines, three cleaning machines, three functional testing machines, and two storage units, managed by two FANUC robots.
- Collaborated with offshore developers, engineers, and stakeholders to plan and execute daily tasks, ensuring site readiness and preparation for robotics line setup. Enhanced user experience and machine uptime by recommending design and process improvements, and actively participated in project planning and sprint meetings with cross-functional teams to ensure highest efficiency during production.
- Integrated the conveyor belt system and FANUC robots, including electrical and pneumatic components as per technical drawings, configured the robots, including unpacking, custom gripper assembly, software installation, and teach pendant programming.
- Deployed and optimized Smart POD systems for mobile phone grading at client sites, achieving a successful go-live within one week and maintaining over 98% machine uptime through effective troubleshooting and software updates.
- Brought down the failure rate of cell phone packaging machine from over 75% to less than 3% through continuous improvements in hardware and software within a time span of 5 weeks and led to the successful production handoff.
- Ensured that the system is not only operator friendly, but also maintenance friendly through systematic improvements in software UX.
- Involved in getting the supply chain warehouse ISO 9001:2015 and ISO 14001 Certified. Ensured that the automation system meets quality standards and environmental guidelines.
- Initiated the implementation process for ASRS and leading the integration with existing warehouse management system. Creating site acceptance tests (SATs) to ensure standardization in process across organization.

MACHINE COMMISIONING AND OPTIMIZATION (REVERSE LOGISTICS AUTOMATION) - DEEPCLEAN - MOBILE PHONE CLEANING MACHINE AND DEEPSIGHT (MOBILE PHONE COSMETIC GRADING MACHINE), IMPERSONATOR (MOBILE PHONE FUNCTIONAL TESTING MACHINE), SMART POD

- Commissioned mobile phone cleaning machines (DeepClean), cosmetic grading machines (DeepSight), and functional testing machines (Impersonator) at three client locations, ensuring seamless production.
- Enhanced accuracy of the cleaning machine from less than 30% to over 90% and the grading machine from 75% to 95% through targeted proof of concept (POC) improvements.
- Developed and documented test procedures and scenarios for pre-UAT phases, providing business user support during UAT and rollout to ensure successful deployment, created Site Acceptance criteria (SAT) documentation for reliable deployments
- Optimized program changes for automated and manual equipment, reducing downtime and increasing throughput, resulting in over 95% machine uptime at production facilities.
- Troubleshot equipment issues through precise root cause analysis to maintain the highest levels of efficiency during production.
- Initiated and managed sprints for feature deployments, including UX improvements and bug fixes, collaborating with teams on PLC, hardware, and software, while maintaining the JIRA project.

MACHINE HARDWARE MONITORING PORTAL

- Led the development of a monitoring portal for live tracking of hardware inputs and outputs across warehouse and client site machines.
- Designed and implemented an email notification module and a feature to generate daily reports detailing hardware KPIs and statistics to ensure proactive management and maintenance.
- Ensured the portal's robust architecture, seamless integration with existing workflows, and scalability for future expansion with additional machines.

EDUCATION

AUGUST 2018 - MAY 2020
M.ENGG ROBOTICS, UNIVERSITY OF MARYLAND, COLLEGE PARK

AUGUST 2014 – MAY 2018
B.E AUTOMATION AND ROBOTICS, VISVESVARAYA TECHNOLOGICAL UNIVERSITY