

RIJUTA N. DIGHE

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Robotics engineer with a focus on human-robot interaction, and mechatronics system design

EXPERIENCE

SEPT 2020 – PRESENT

ROBOTICS ENGINEER, PHOENIX INNOVATIONS

Projects and Responsibilities -

DEEPSIGHT (MOBILE PHONE COSMETIC GRADING MACHINE):

- Responsible for deployment of machines at two client locations.
- Fine tuning the machines as per client requirement and preparing them for gage repeatability and accuracy.
- Supporting offshore team for software deployments and evaluating them pre-production on UAT environment.
- Ensure smooth running of operations throughout twenty-hour production cycle by doing necessary hardware changes as well as software and PLC updates
- Improve user experience for the operator through design changes on UI and hardware.
- Troubleshoot any equipment issues and maintain machines during production.

DEEPCLEAN (MOBILE PHONE CLEANING MACHINE):

- Research quality and efficient consumables for machine through testing and experimentation.
- Assist design team in developing added mechanisms for the next version of the machine.
- Responsible for commissioning of machines at two client locations and ensuring smooth production by troubleshooting equipment issues.
- Creating and documenting test procedures and scenarios for the pre-UAT phases, as well as provide business user support during UAT and rollout
- Making program changes on automated & manual equipment's to improve uptime, improve recovery, reduce scrap, increase throughput.
- Troubleshoot all equipment issues and ensure highest efficiency during production.
- Improve operator experience through UI and maintain JIRA project

CONVEYOR LINE SETUP

- Setting up complete conveyor line of mobile phone cosmetic grading machines and cleaning machines operated by FANUC robots.
- Collaborate with offshore developers, engineers, project managers and other stakeholders to understand the requirements and scope of the robotics project.
- Planning of daily tasks, preparing checklists, and ensuring site preparedness such as floor marking, assembly tools, onsite requirements for robotics line.
- Assembling entire conveyor belt system and fitting all the associated i/o devices as per drawings.
- Making all electrical and pneumatic connections and routing them for the system as per diagrams provided.
- Setting up machines for the conveyor and supporting PLC and software deployments for the offshore team.
- Setting up FANUC robots which included initial unpacking, mounting on pedestal, fitting custom manufactured gripper assembly, installing, and testing required software packages.
- Programming FANUC robot using teach pendant as per requirement.
- Ensuring that the entire robotic machines operate safely, dependably, and with precision: identify and implement modifications
- Improving user experience and machine uptime by applying knowledge machine automation to recommend modifications to current designs and processes.
- Engage in project planning and taking sprint calls with different teams such as mechanical, electrical, PLC, software – frontend and backend, along with offshore project managers to improve system efficiency.
- Ensure that the entire robotic manufacturing cell runs smoothly by performing root cause analysis and troubleshooting any issues with the subsystems with team or independently.

SKILLS

- Robotics engineering – system thinking
- Mechatronics engineering – prototyping (3d printing, laser cutting, operations – drilling, grouting, fitting, soldering), CAD (Solidworks, Qcad)
- Troubleshooting – root cause analysis, repair, continuous improvement, field service
- User experience engineering – user studies, story boards, wireframes, usability testing, personas
- Project management – JIRA, quality assurance, stakeholder discussions

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