

Jinko Solar Sdn Bhd, Plant M1, Batu Kawan, Penang (since 6th June 2023)

Joined one of Top 5 Solar manufacturer in the world, as *Engineer position in Equipment department.*

1. Improved Junction Box Auto-Soldering (JBAS) machine efficiency by 95% based on NG rate; from 98.27% (May 2023) to 99.93% (Dec 2023).
2. Monitoring ready machine spare parts, categorised into consumable, non-consumable with respective safety stock.
3. Self-learning fine tuning machine learning software (Vision for JBAS) and Camera AI for 4in1 system.
4. Communicating with other departments, Production, Process and QA, regarding equipment tuning problems.
5. Planning PM for equipments, including regreasing and replacing worn out consumable spare parts.
6. Leading audit trail at assigned equipment area and reparing Action Report (AR) for machine nonconformity.
7. Improving data traceability by initiating sharing of machine folder to local network.
8. Self improvement by writing Python code to auto-screenshot machine screen as data storage.
9. Compiling hardware and software datasheet, softcopy manual, vendors' manual as reference archive.

Top Glove Sdn Bhd, Factory 23, Ipoh, Perak (2 years 6 months; from 2nd November 2020)

Joined largest glove manufacturer in the world, as *Engineer position in Production department.*

1. Reported to Manufacturing Managers in executing engineering improvement projects.
2. Initiated Programmable Logic Board (PLC) projects with hands-on AC and DC wiring (MCB, RCCB, AC converter, main PLC) including terminal box design and I/O wire laying.
3. Self-learning PLC Programming Language (Ladder Diagram), mainly with Keyence PLC, with good understanding of Coils and Input, plus add-ons modules: Analog to Digital Conversion, Serial Comm RS232 RS485 and Ethernet IP Comm.
4. Designed Human Machine Interface UI with Delta DOP107CV, to work with PLC projects, ex: improvement of Polymer Timer Mini Pump Project by eliminating physical timer and relay components.
5. Converted production board to smart-board TV accessible from anywhere by self-written HTML and CSS language with Google Sheet Embedded, with paper usage eliminated and respective declaration using Google Form.
6. Maximized output of production line to achieve target output KPI setting, by reducing scrap percentage from 2.29% (Nov 20) to 0.90% (Apr 23).
7. Carried out adhoc troubleshooting with supervisors and leaders on glove and defects on-site to ensure good quality products.
8. Conducted production whiteboard planning with major department (i.e. Compounding, Packing) weekly on Monday or on adhoc discussion urgent matters.
9. Focused Total Preventative Maintenance (TPM) with Maintenance department to improve and achieve 93.0% uptime production line (Dec 2022).
10. Performed and lead mass scale trial run at production line with Research & Development (R&D) team.
11. Ensured quality product output to meet AQL and International Standards: ASTM D3578 Standard Specification for Rubber Examination Gloves, EN455 European Standard for Medical Gloves.
12. Maintained compliance of production department to meet ISO 9001, ISO 13485, ISO 14001.
13. Complied with ISO 45001 Occupational Health and Safety Management System, including renewing Hazard & Operability (HAZOP) study for production chemicals and equipment, reporting Unsafe Act Unsafe Condition (UAUC) to Safety Department.
14. Good exposure to Emergency Response and First Aid Training, played a part of Factory Emergency Response Team.
15. Key person for departmental in Factory Customer Audit (Plant audit, On-site Inspection), Quality Audit (SIRIM, ISO) and Social Compliance Audit (BSCI, BSC) for documentation preparation and plant tour.
16. Quality analysis and improvement using FMEA, 8D, Fishbone (Ishikawa), Five Whys, Poka Yoke, maintaining 5S principle at workstation.
17. Assisted in Operational Qualification (OQ) and Performance Qualification (PQ) validation of production line yearly.
18. Prepared CAPAR report and carried out corrective action, improved customer satisfaction by reduced customer complaints from 39 complaints (2019) to 13 complaints (2022).