

Automation of Multi-use Cartridge Recharger testing

Business Challenge

Automation of test cases of multi-use cartridges using actual hardware



Requirement

Its a Electromechanical machine intended to disinfect and restore the capacity of the single-patient, multi-use cartridges of the Dialysate Regeneration Module between the patient treatment sessions. This cartridges are used for Dialysis. The recharger software is divided in two subsystems, Recharger UI and Fluid Circuit Control System.

- Test Strategy
- Test Case design and development
- Automation.
- Testing all negative and positive scenarios of the functionalities.
- Raise and ensure that the issues are fixed
- Zero defect post release of the project.



Technology & Tools

- Programming Language: Python
- Operating System: Windows
- Tools: Jira, Polarian, GIT, J-Link
- Software methodology: Agile methodology



Value add by Mirafra

- Reliability and Quality Assurance by thoroughly testing the functionality, performance, compatibility of SW components.
- Mirafra analyzed the requirements and defined the testing strategy.
- Identification, design and development of test cases.
- 30% time reduce for manual testing by Automating the test cases
- Mirafra was resource ready from Day “Zero”
- Mirafra kicked off and completed the project and achieved the defined milestones as promised