Pogo-Pin Test System Development Plan

# Introduction

This project will create an open-source, reusable software platform for bed-of-nails (pogo-pin) test fixtures. This will allow Sensit to (1) quickly develop bed-of-nails test fixtures without requiring software development, (2) increase productivity by automating manual labor for testing (3) log results of production tests in a database. This will ultimately decrease time-to-market for new products and provide data for production enhancements.

Your mission, should you choose to accept it, will be to enhance the *Sensit Test Suite*, an automation application and SDK, adding features to enable control of bed-of-nails (pogo pin) test fixtures.

User Stories

The following user stories define the application we wish to develop:

* As an operator…
  + I want to start, stop, or pause a bed-of-nails functional test, so I can work quickly.
  + If a test passes, I want to see a simple indication of that, so I can minimize confusion.
  + If a test fails, I want to see a simple indication that the test failed, along with a picture and instructions about what should be checked, so I can inform a repair technician.
* As a technician…
  + I want all test fixtures to use the same application, so I can cross-train operators.
  + I want to be able to configure a test, so I can make test fixtures without writing code.
  + I want to save test fixture settings in a file, so I don’t have to repeat any setup work.
* As an engineer…
  + I want to record test results in a database, so I can calculate first pass yield, etc.
  + I want to record test results in a CSV file, so I can collect data if a database fails.
  + I want to be able to add support for new types of devices by adding a new class to an SDK and rebuilding the application, so I can quickly add support for new test equipment.

# Still Interested?

You need Visual Studio 2022 with .NET 6.0.

Source code: <https://github.com/SensitTechnologies/TestSuite/>

Design notes: <https://github.com/SensitTechnologies/TestSuite/wiki>

Backlog items: <https://github.com/SensitTechnologies/TestSuite/projects/4>

# Revision History

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| --- | --- | --- |
| **Date** | **By** | **Change Description** |
| 4/7/2022 | Adam Johnson | Initial revision. |