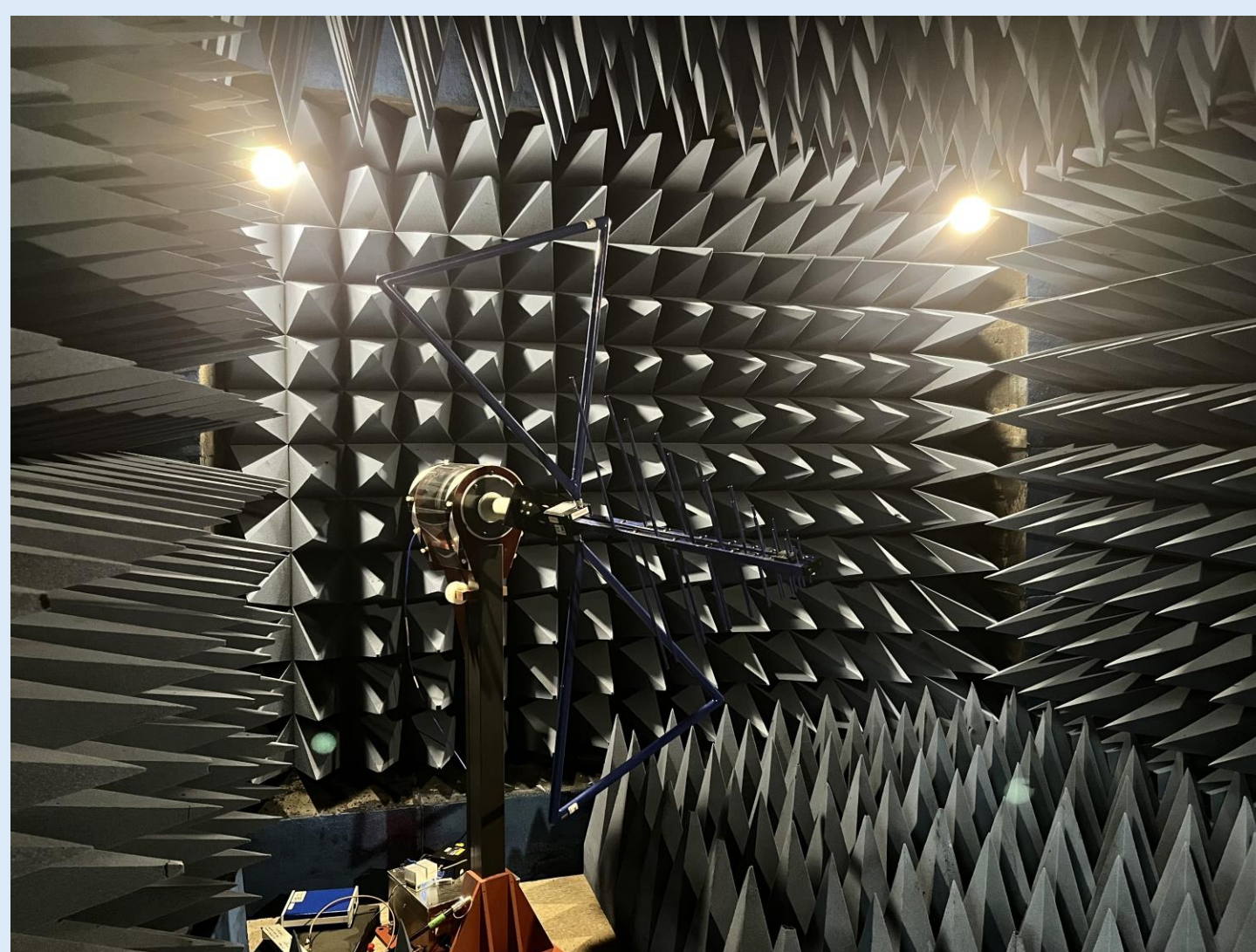
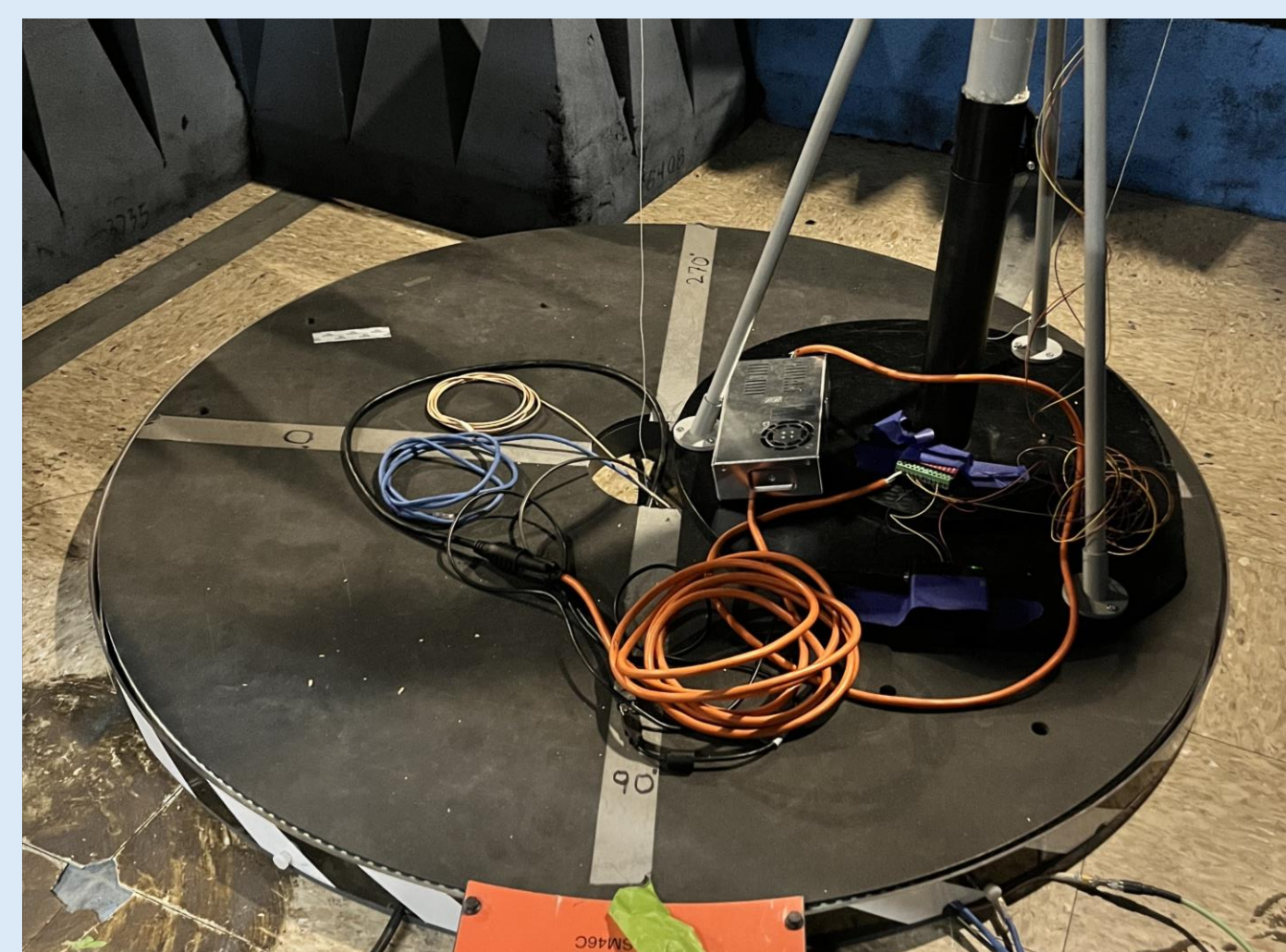


Project Goal:

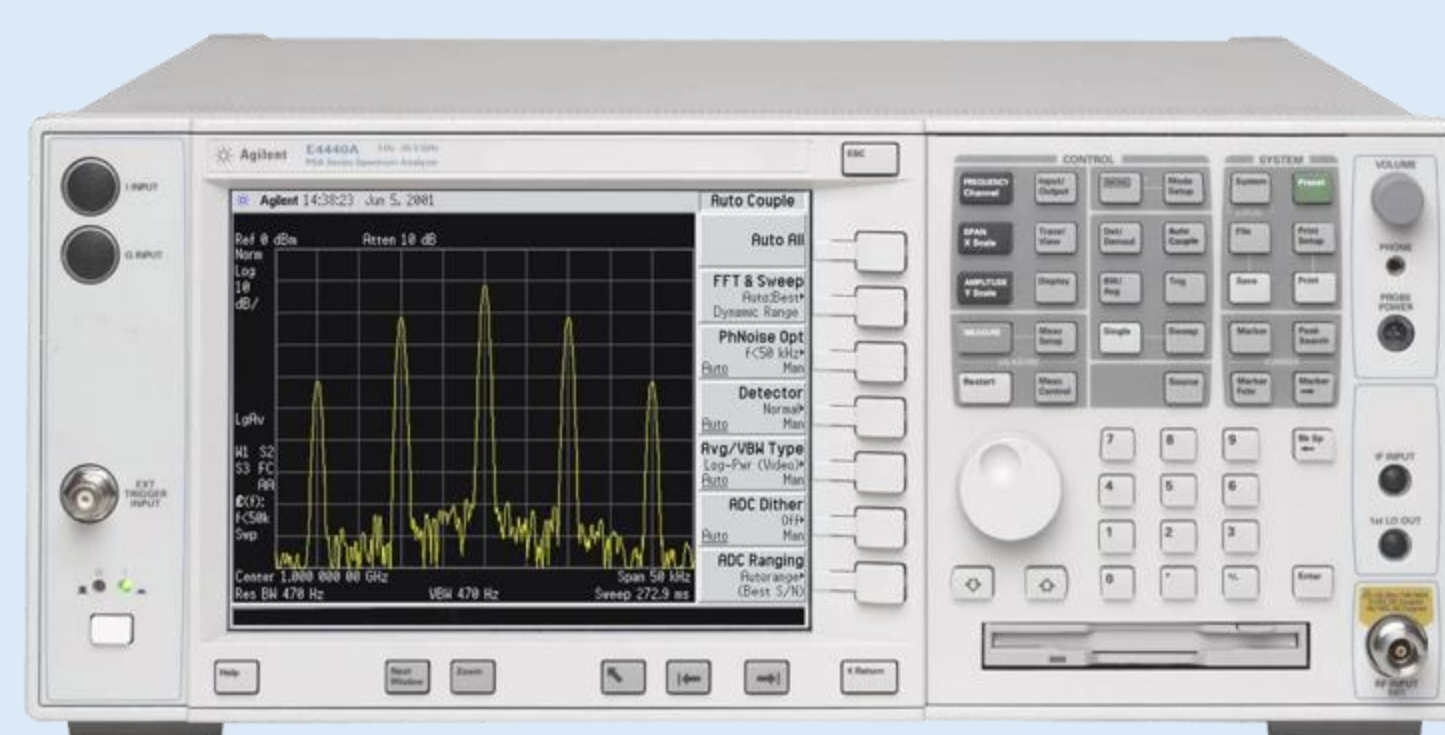
- Redesign existing software to a modern language
- Add additional functionality for 3D axis data measurement
- Export measurement data into multiple file types



Antenna



Turntable



Analyzers

Our program executes radio frequency tests in an anechoic chamber via measurement instruments controlled by GBIP.

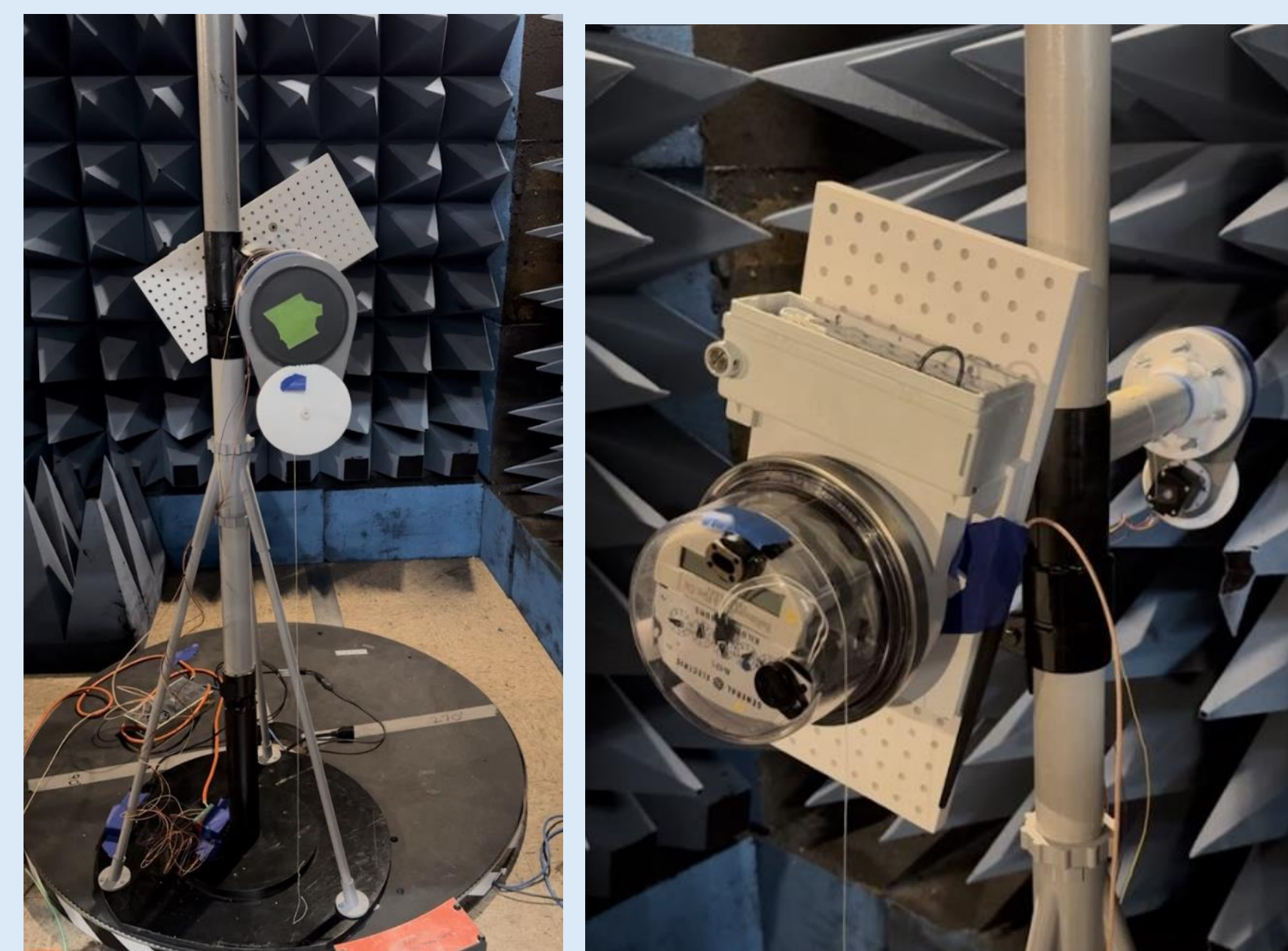
Front-End Features:

- Interactive GUI app
- Real Time data visualization
- Custom debugging info
- Instrument control

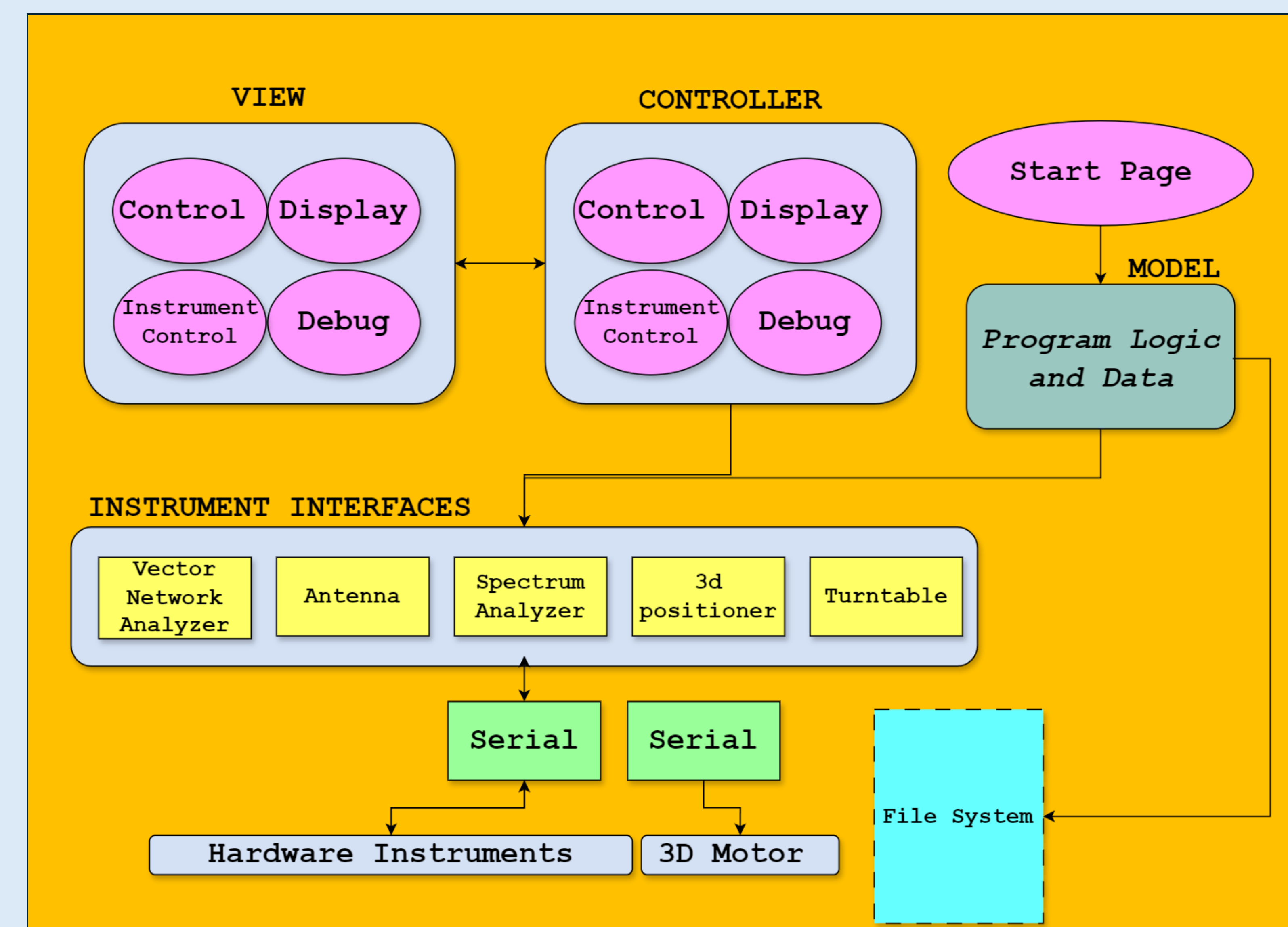


Back-End Features:

- Serial communication
- Instrument debugging
- Data collecting with 2D/3D testing
- File saving and exporting

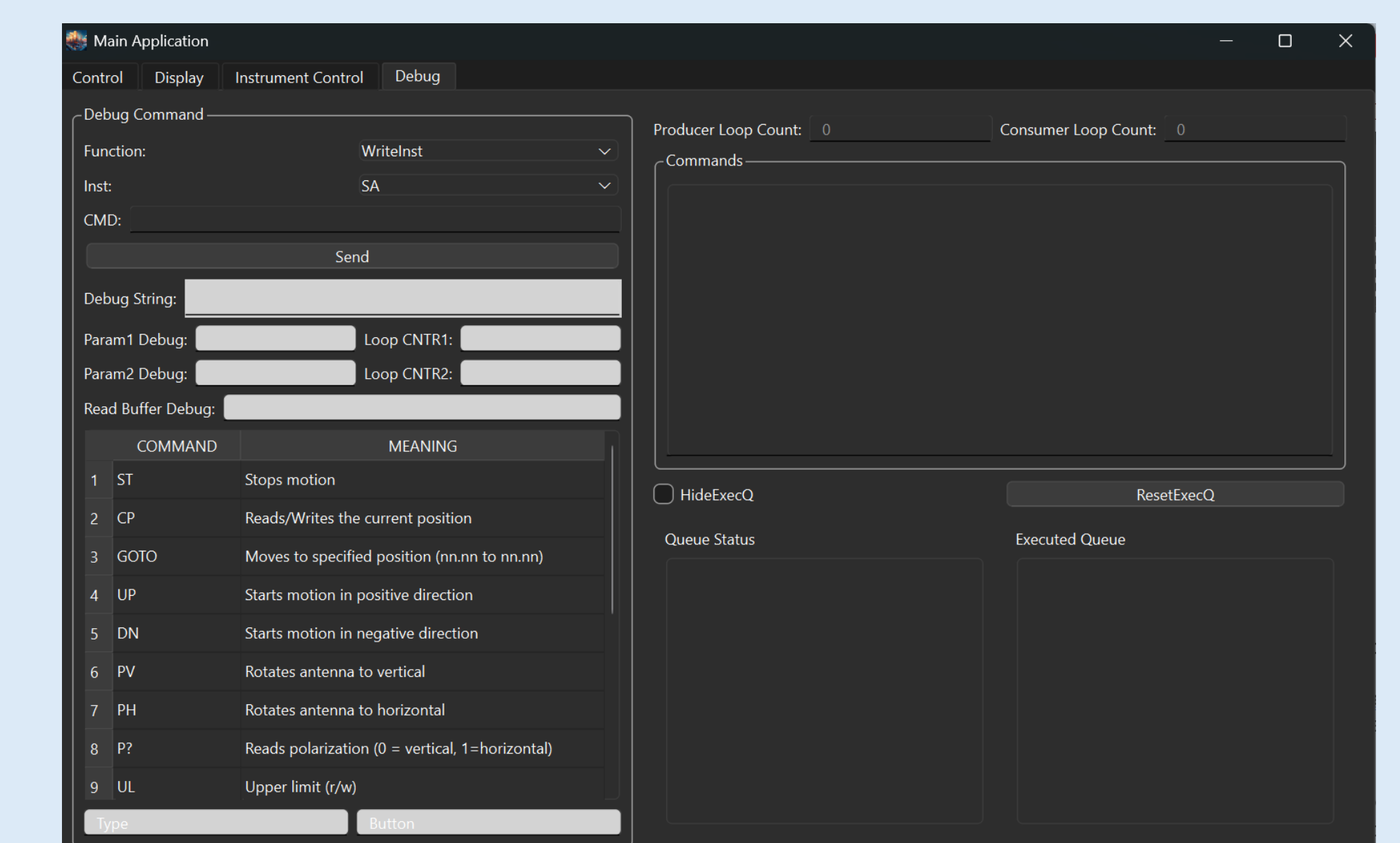
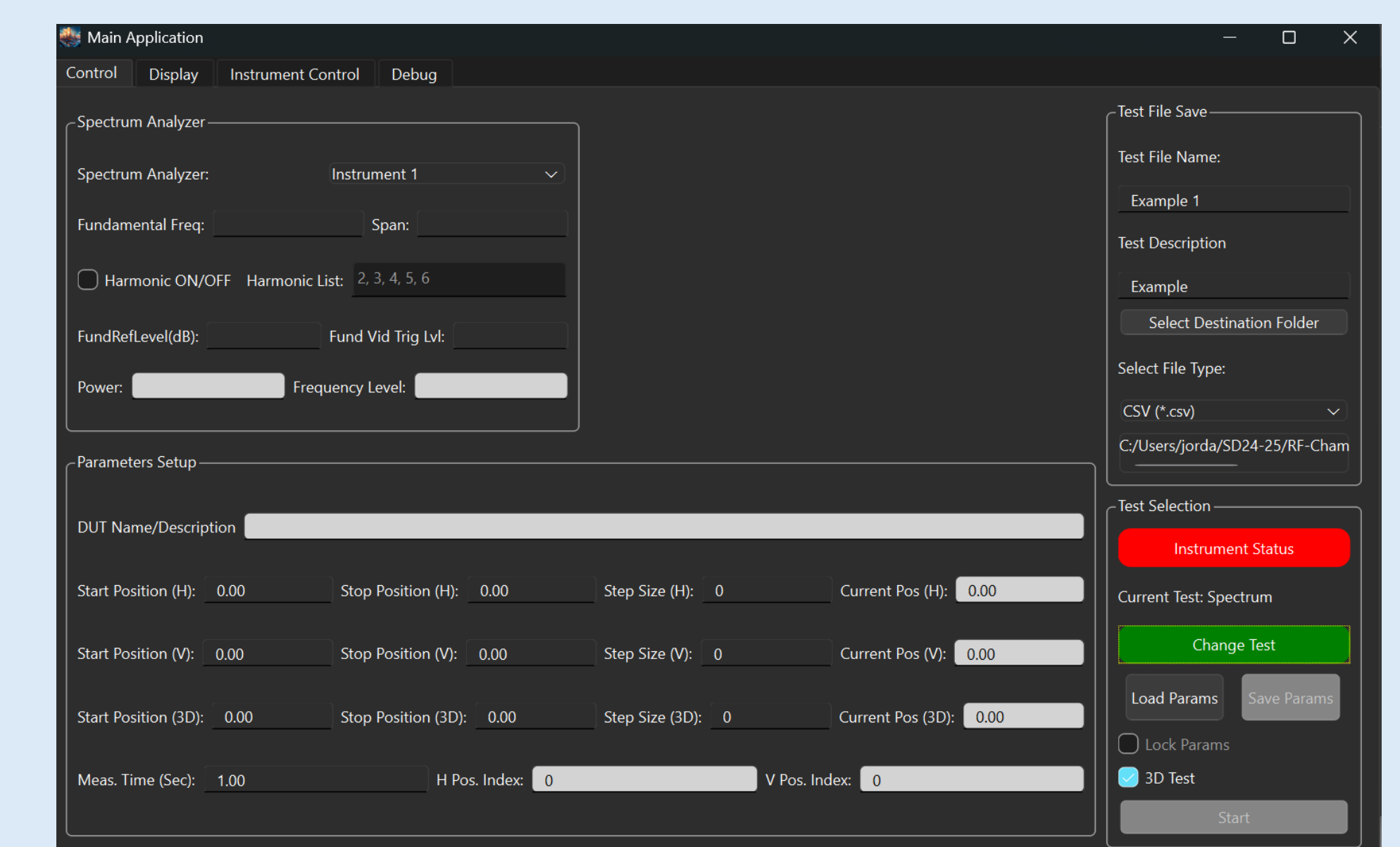


Software Architecture:



End Results:

We successfully created a new application which combined their two-legacy software's in one standalone program, including implementation for controlling their new 3D arm. The new software included a fresh look with a multitude of bug fixes and additional end user improvements that were requested.



Next Steps:

- Additional file-type support
- UI improvements
- Additional data visualization
- Support for new instruments