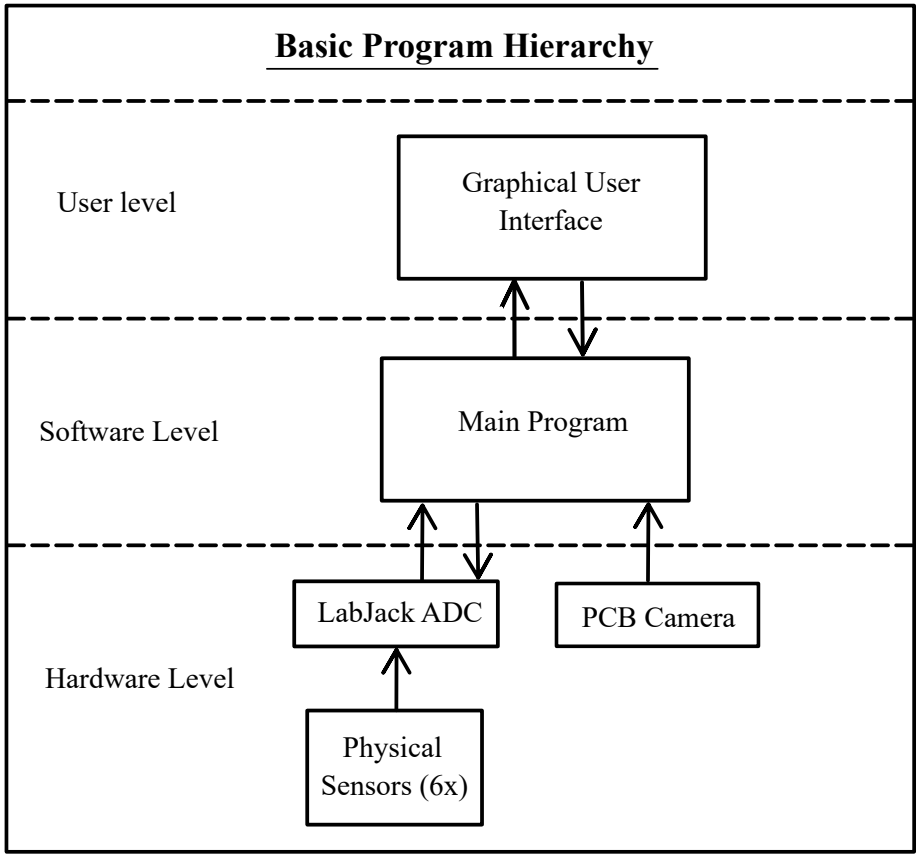
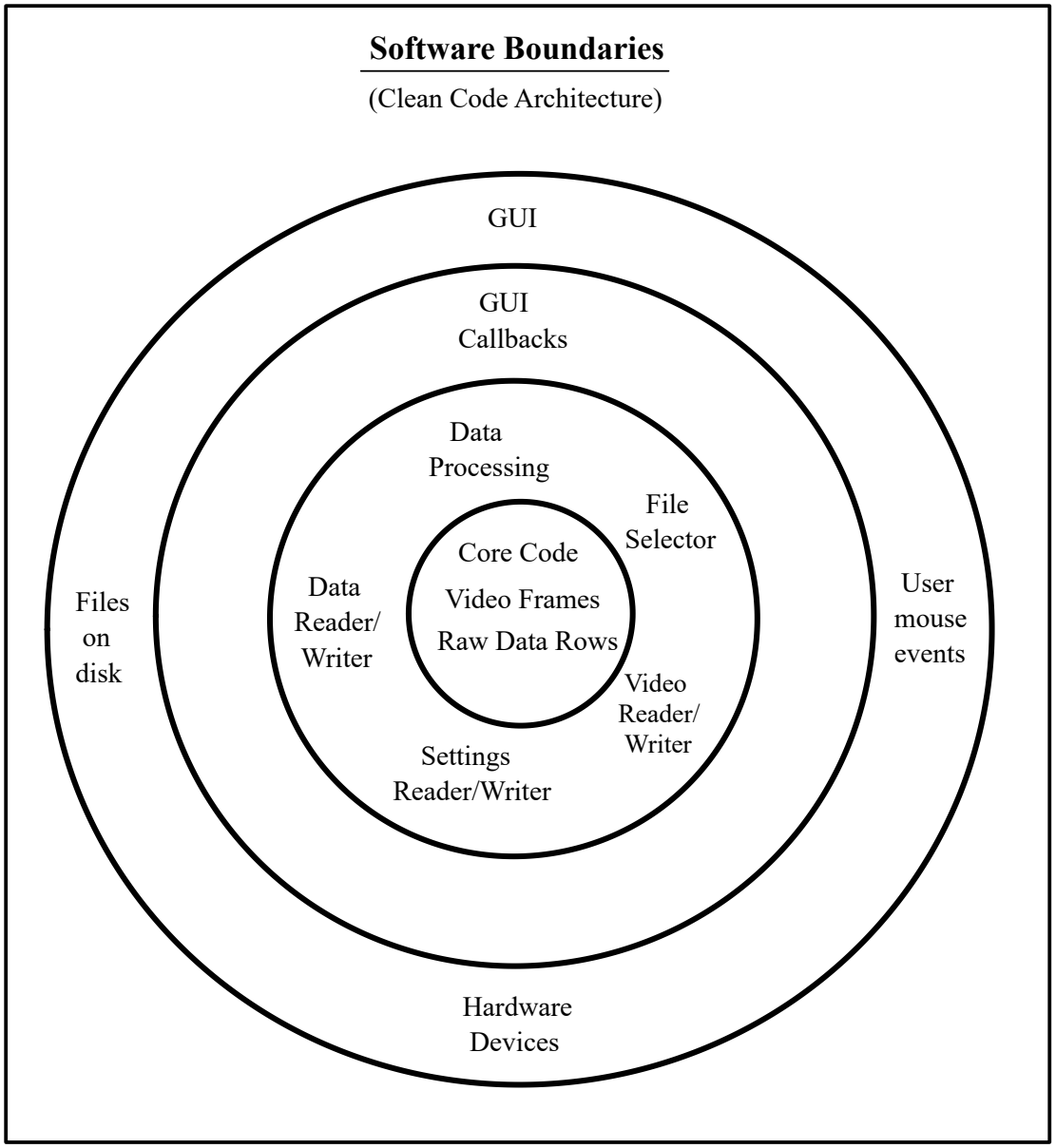
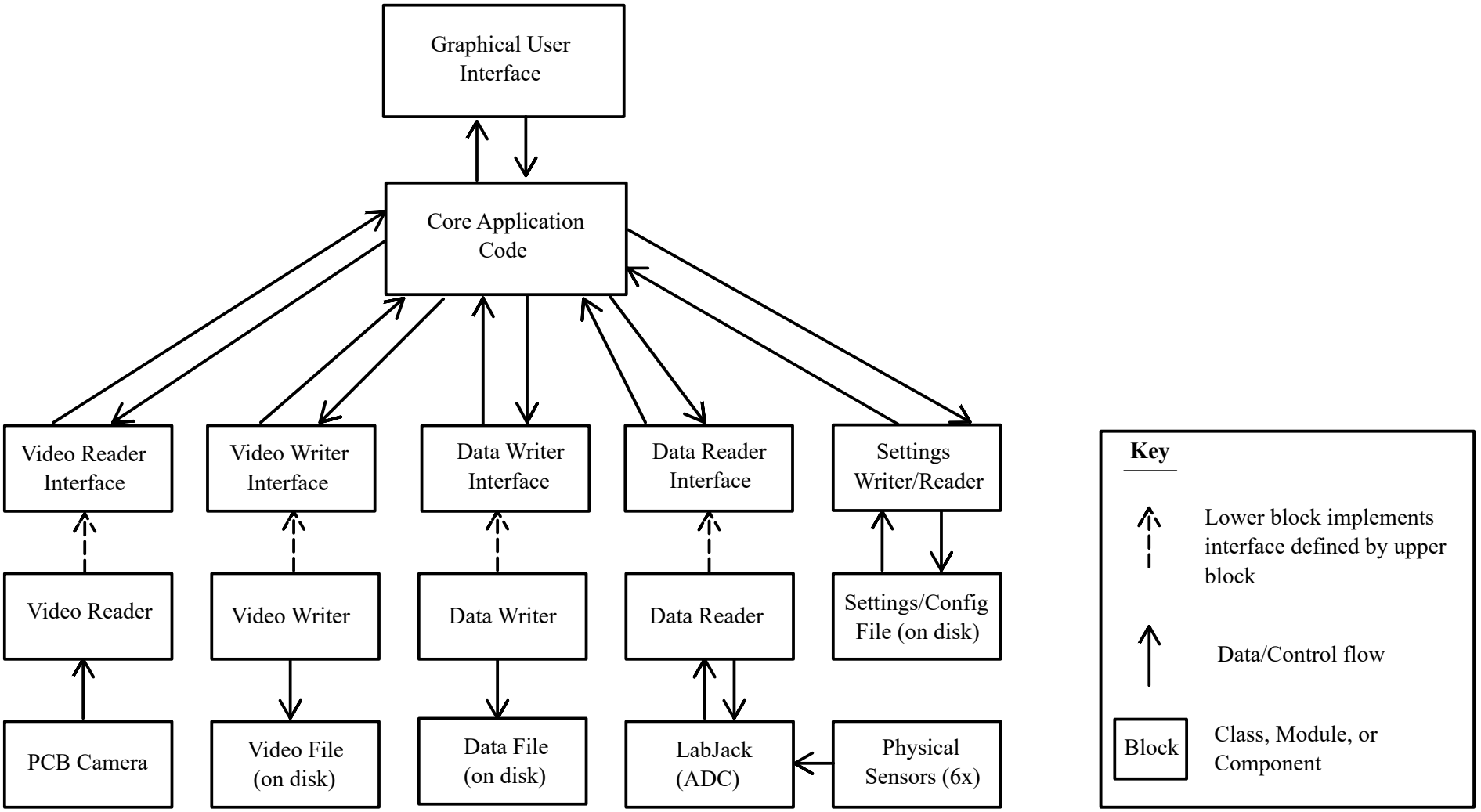

Basic Program Hierarchy
User level
Graphical User Interface
Software Level
Main Program
LabJack ADC
PCB Camera
Hardware Level
Physical Sensors (6x)


Software Boundaries
(Clean Code Architecture)
GUI
GUI
Callbacks
Data
Processing
File
Selector
Core Code
Video Frames
Raw Data Rows
Data
Reader/
Writer
Video
Reader/
Writer
Settings
Reader/Writer
Files
on
disk
User
mouse
events
Hardware
Devices

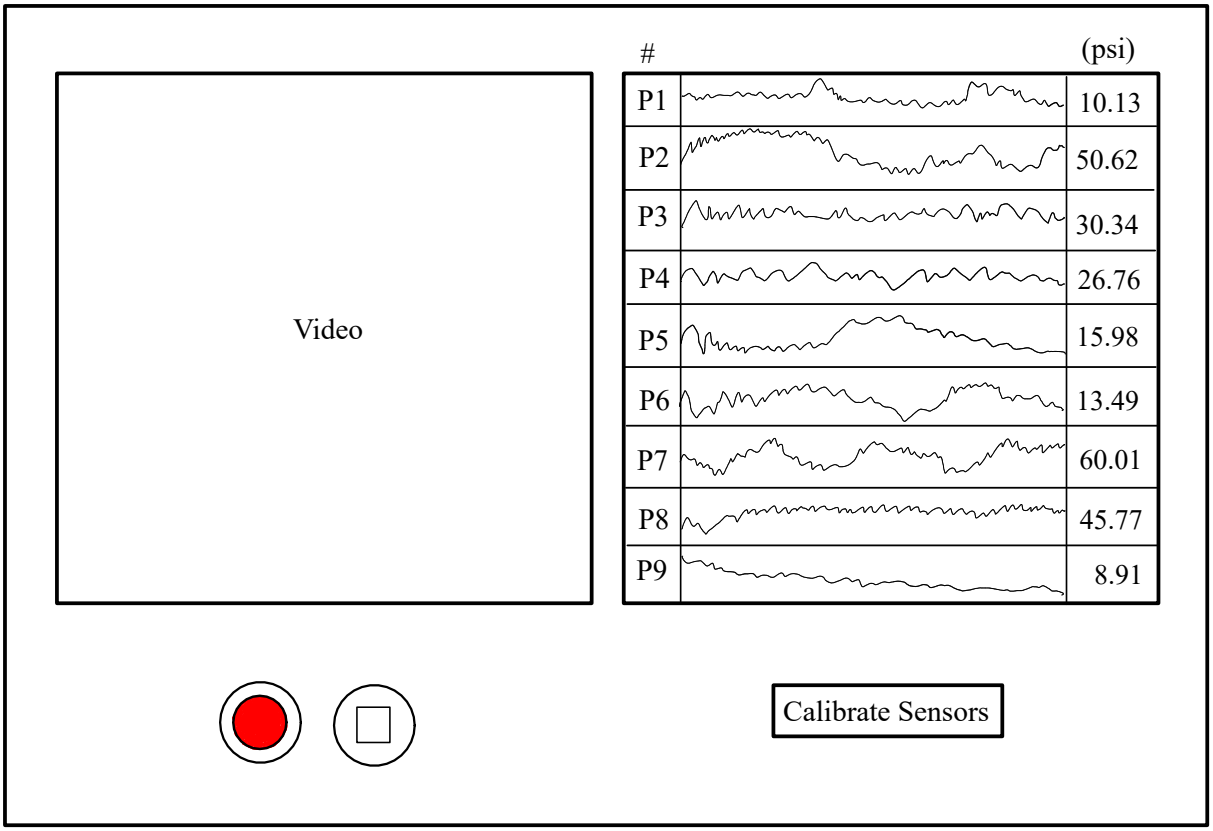
Software Abstraction Hierarchy



UI/UX Diagrams:

Welcome Window

Live Session Window



Popup: File Selection Dialog

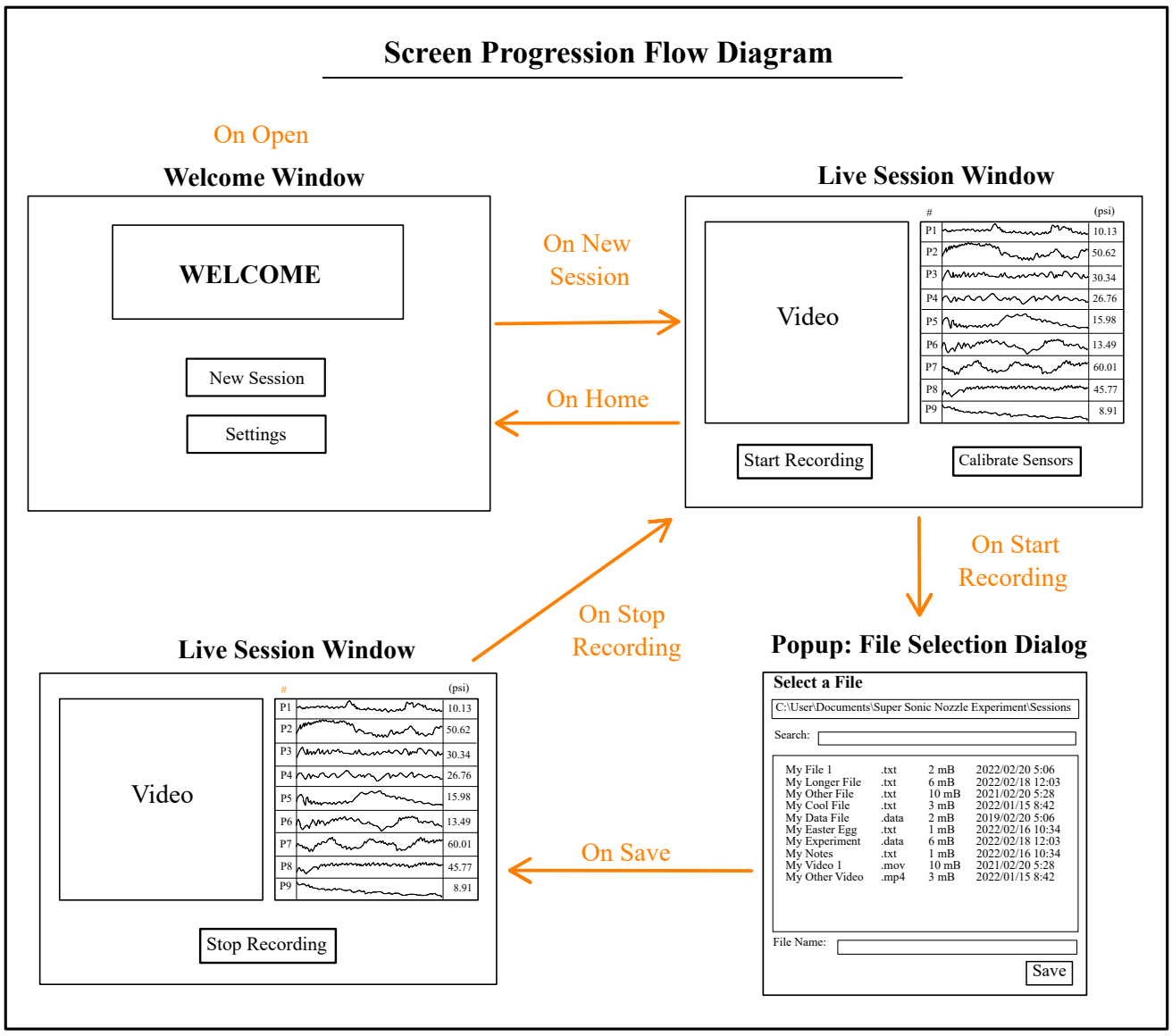
Select a File

C:\User\Documents\Super Sonic Nozzle Experiment\Sessions

Search:

My File 1	.txt	2 mB	2022/02/20 5:06
My Longer File	.txt	6 mB	2022/02/18 12:03
My Other File	.txt	10 mB	2021/02/20 5:28
My Cool File	.txt	3 mB	2022/01/15 8:42
My Data File	.data	2 mB	2019/02/20 5:06
My Easter Egg	.txt	1 mB	2022/02/16 10:34
My Experiment	.data	6 mB	2022/02/18 12:03
My Notes	.txt	1 mB	2022/02/16 10:34
My Video 1	.mov	10 mB	2021/02/20 5:28
My Other Video	.mp4	3 mB	2022/01/15 8:42

File Name:

Save Open

Screen Progression Flow Diagram