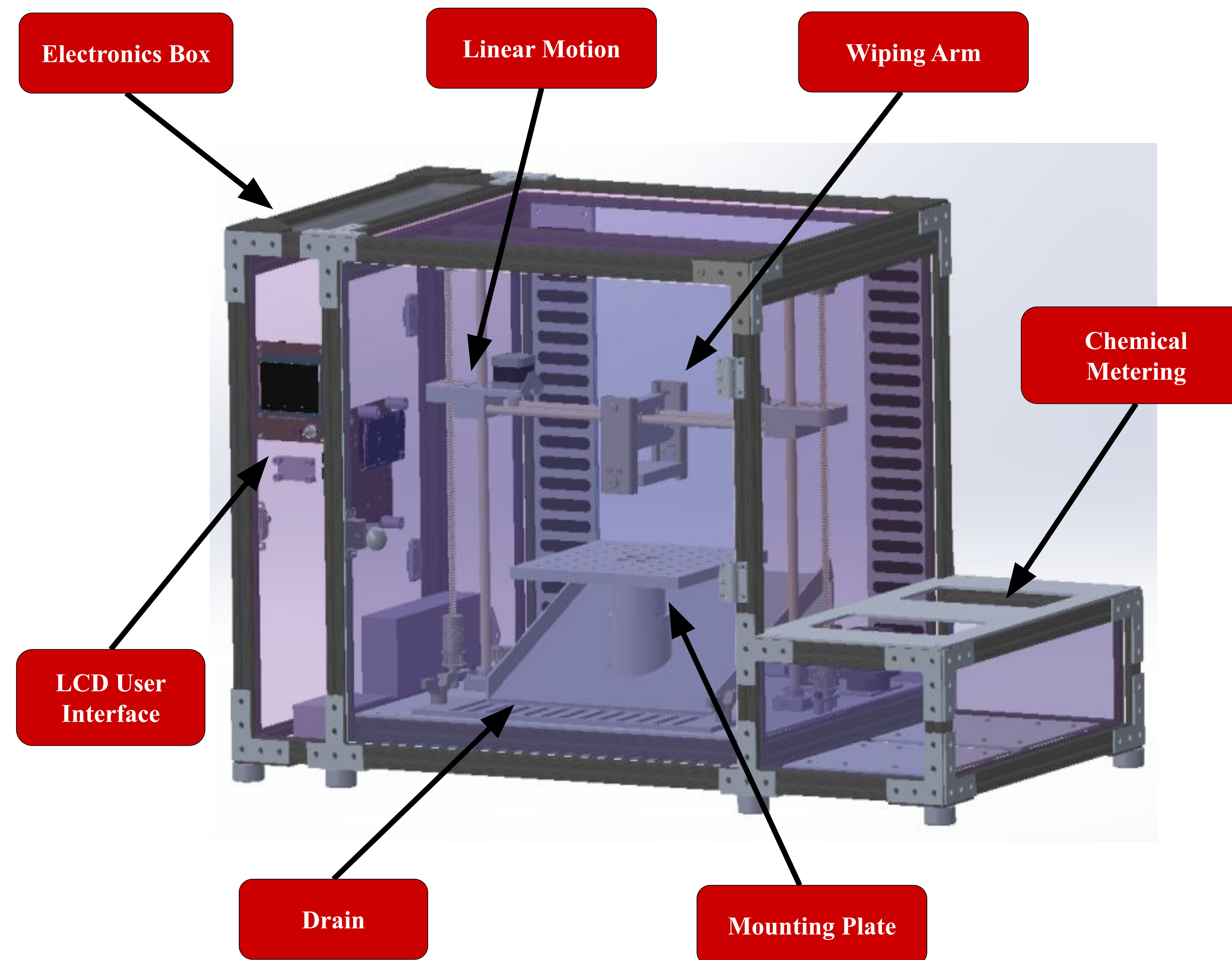


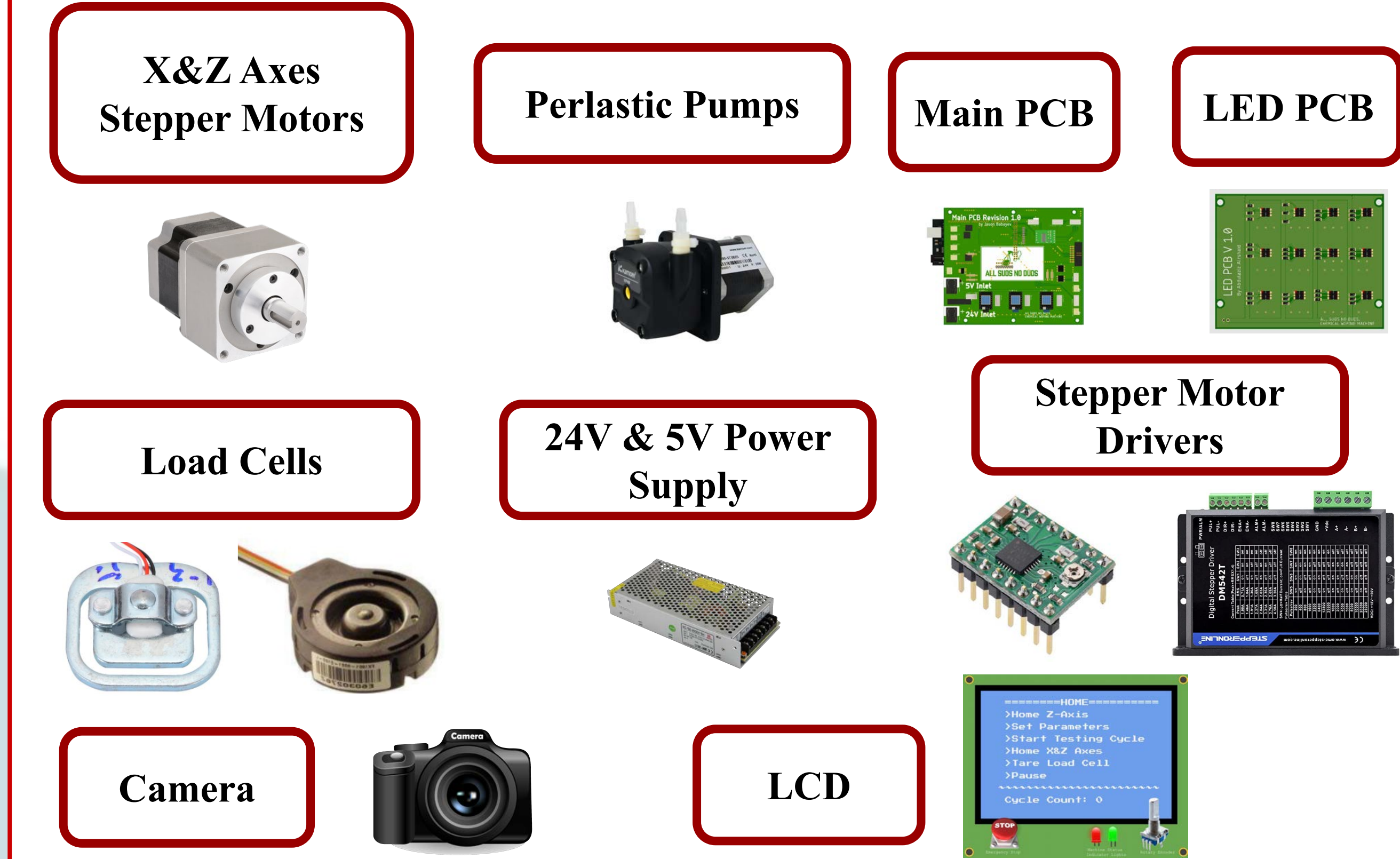
## Project Overview

Devices used in a medical setting must have proper labeling on the exterior casing to maintain FDA certification. Team All Suds No Duds worked with sponsor Masimo to create a test device that is capable of completing up to 100,000 cycles autonomously to test material degradation of devices. This device consists of multiple subsystems for linear motion, drainage, wiping, camera, chemical application, and electrical components.

## Final Assembly



## Hardware Components



Test	Objective
Load Cell	Provide accurate force readings when the object is wiped
Pump	Pumping speed and controlled amount of chemical fluid applied
Linear Motion	Verify movement in the x-axis and z-axis
Wiping Arm	Ability to apply force onto object and gather force feedback for analysis

## Our Team

### Mechanical Engineering Team



Lauren Jansen  
ME Team Lead



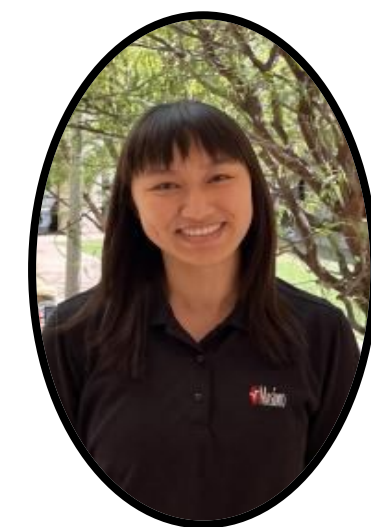
Jared Meeks  
Design Lead



Jackson Cruise  
Manufacturing Lead



Sean Eckstein  
Procurement Lead



Lori Voong  
Quality Lead

### Electrical and Computer Engineering Team



Jason Babayev  
ECE Team Lead



Abdulaziz Alrshaid  
Hardware Lead



Ahmad Bandar  
Power System Lead



Luka Emrashvili  
Testing Lead



Kamar Mirza Hussein  
Software Lead

## System Level Diagram

