Software Architecture

Renesas Operative System

HAL/Common			ADC Thrd		PWM Thrd			Encoder Thrd	PID Control Thr	LCD Touchscreen
Driver I/O Port	Driver Clock	External Interrupt	Port Config	Resolution	Port Config	Period	Init Duty Cycle	Port Config	Algorithm	Port Config	Init Config

Hardware Architecture

uC

- USB
- PWM
- ADC
- RAM/ROM
- SPI
- LCD Touchscreen

Bench Station

- Power Supply
- Motor
- Driver

Under USB:
- Powe Supply
- Debbuger
- DC/DC Converter

Under Driver:
- Encoder
- Hall-Effect Sensor
- H-Bridge Driver