

INDEX

Main MCU Software

STM32H723ZG main MCU firmware - FOC motor control, sensor acquisition, CAN, and safe-state management.

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1. Main MCU Software

The main MCU (STM32H723ZG) runs FOC motor control, sensor acquisition, CAN communication, and safe-state management.

- **Architecture** - Software architecture, layers, state machine, and module overview
- **Bootloader** - Firmware update, signing, and recovery
- **Encoder Offset Calibration** - Encoder offset calibration procedure
- **MPC Multi Rate Sampling** - Multi-rate phase-current sampling plan