FreeRTOS Message Handler
Transmission, Reception, and Parsing of CAN Messages (Commands & Status)

Controls the Motor and Processes Commands

Legend
- Command
- Feedback/Status

Android App - Status & Commands
Local Connection TCP/IP Bypass

AWS Cloud
DynamoDB
Status Stream
Command Stream

Router
WiFi

NMC
FreeRTOS
MQTT
CAN Handler
Transmission, Reception, and Parsing of CAN Messages (Commands & Status)

CANBus
Motor Module
CAN Handler
Transmission, Reception, and Parsing of CAN Messages (Commands & Status)

Motor Controller
Controls the Motor and Processes Commands

CANBus
GPIO
Limit Switches
GPIO
Manual Override Switch
GPIO
PWM To Motor

TCP/IP
AWS Messages
Local Messages
Message Handler