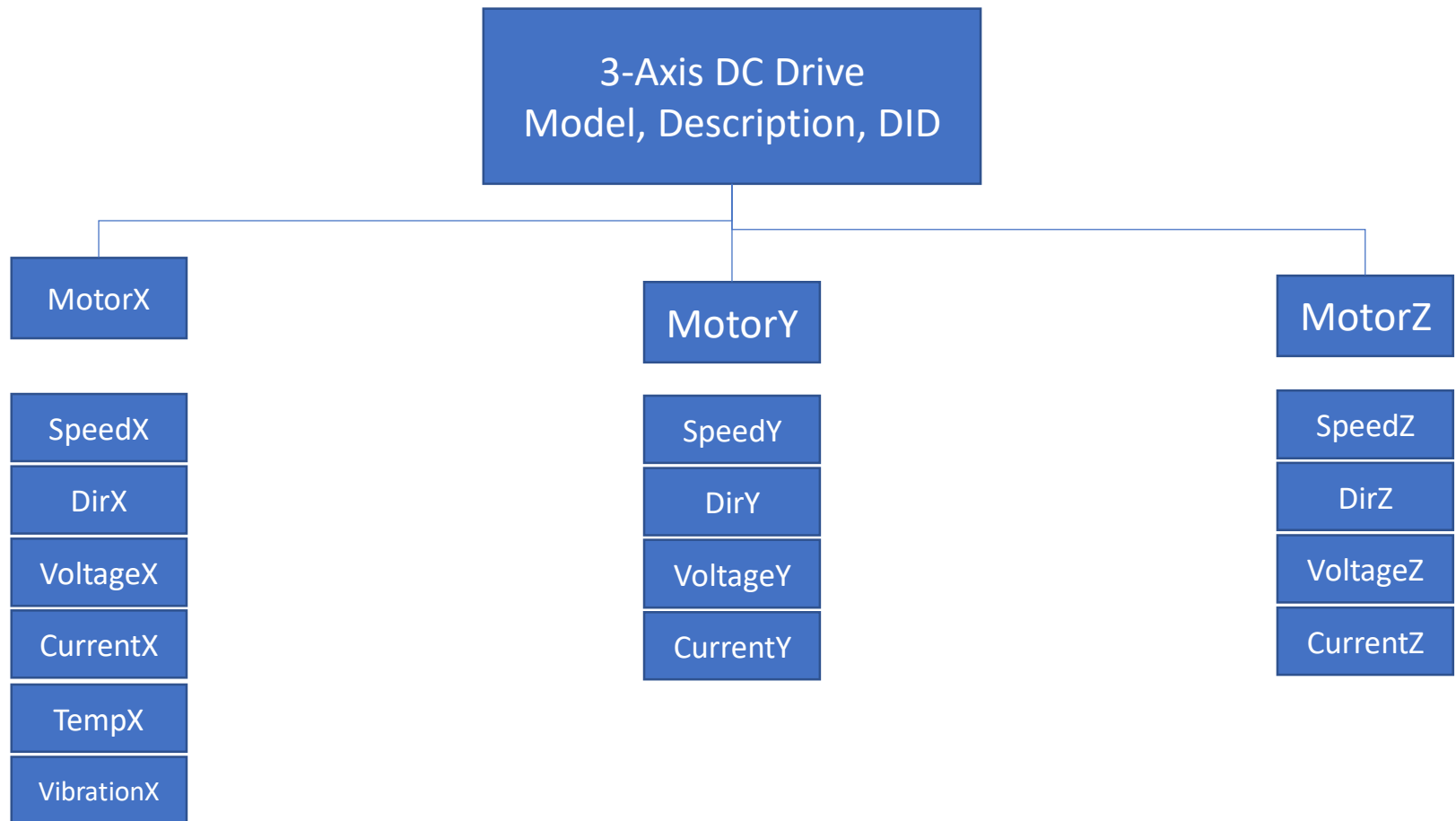# Implementation

Implementation

- main.h
  - Motor
    - Speed
    - Voltage
    - Current
    - Temperature
    - Vibration
  - Drive
    - DID
    - struct Motor MotorX
    - struct Motor MotorY
    - struct Motor MotorZ

Implementation

- Main.c
  - #include
  - #define
  - public/global variables
    - struct Drive MyDrive;
  - main()
    - //Initialise TM4C1294
    - //Initialise peripherals
    - //Initialise application variables
    - //while(1)
      - If data available on MQTT broker
        - Get data
        - Set the Motor parameters appropriately in MyDrive
      - Control the motors as per received parameters in MyDrive
      - Get health parameters
        - Voltage
        - Current
        - Temperature
        - Vibratrions
        - Update in MyDrive
      - Send to MQTT broker the data from MyDrive
    - //End while loop