

Program Flow

Basic Workflow:

Firmware is present in `affbotics_software/firmware/avg/Line_sensor/src/main.cpp`

- Line sensor communicates using Modbus over RS485
- The Modbus I registers from address `0X1000` to `0X1003` can be read to obtain number of tracks, markers, Left track error and Right track error

Am a Geek:

- Modbus Register address and `SLAVE_ID` can be changed by changing `#define` values
- Uncomment the line `#define DEBUGMODE 1` to continuously print raw sensor readings in CSV format through serial.
- Track and marker threshold values can be tweaked by changing `#define trackThreshold` and `#define markerThreshold`

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