

## ADCS Subsystem

### 1. pivotal goals

**Interface OBC with ADCS**, this goal can be done by implementing the control flow in ADCS High-Level Task List, which includes 3 passive detumble processes, 11 active detumble processes and 2 active overpass/payload/comms control processes.

### 2. stretch goals

The flowchart for the detumbling procedure in ADCS High-Level Task List is pulled directly from the commissioning manual provided by CubeSpace. The relevant section begins on page 16.

Telecommands (TC) and Telemetry Requests (TLM) are already implemented in `adcs_functions.c`, those telecommands and Telemetry requests will be helpful to implement the detumbling procedure. All information about TC/TLMs such as offset, length and data type of the necessary parameters are provided in the reference manual, it also demonstrates how to encode the message via I2C.

All TC/TLMs are already tested by connecting the ADCS board to the onboard-computer and running code on OBC to send commands to ADCS and debug.

