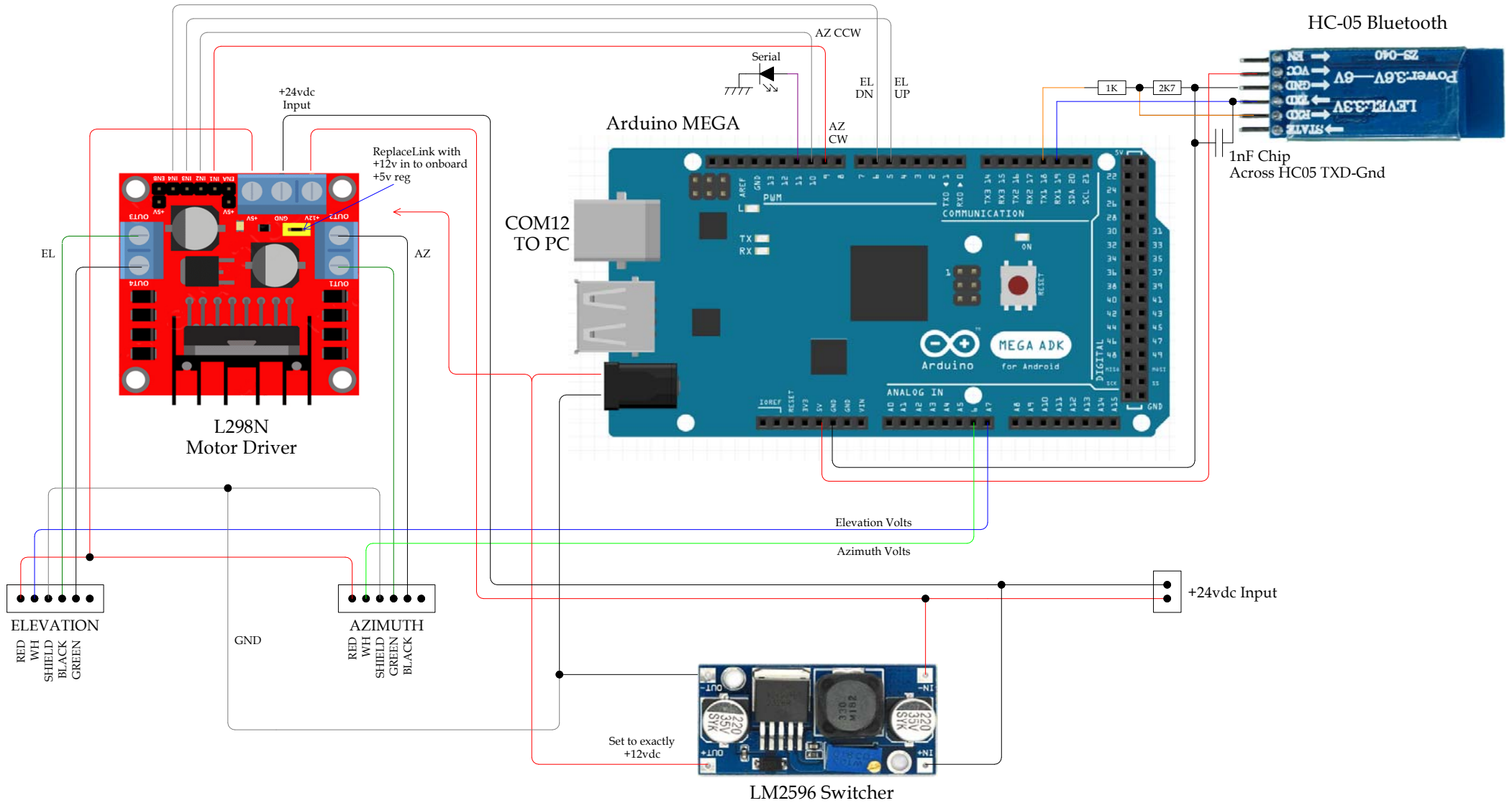HC-05 requires a 1nF chip cap across the TXD to GND pins to
reduce noise in the VHF band.
Requires 43 material ferrites on Arduino motor drive and analogue
input wiring to reduce noise on VHF

HC-05 Bluetooth

AZ CCW

Serial

EL
DN   EL
      UP

+24vdc
Input

AZ
CW

Arduino MEGA

1K   2K7

ReplaceLink with
+12v in to onboard
+5v reg

1nF Chip
Across HC05 TXD-Gnd

EL

COM12
TO PC

AZ

L298N
Motor Driver

Elevation Volts

Azimuth Volts

ELEVATION

+24vdc Input

RED
WH
SHIELD
BLACK
GREEN

GND

AZIMUTH

RED
WH
SHIELD
GREEN
BLACK

Set to exactly
+12vdc

LM2596 Switcher

Mini-Kits Modified K3NG SAT

DRAWN	MINI-KITS
DATE	4-12-2020
PROJECT	Satellite Station
FILE	K3NG-Rotator-Sat-Rev1.0.SKF