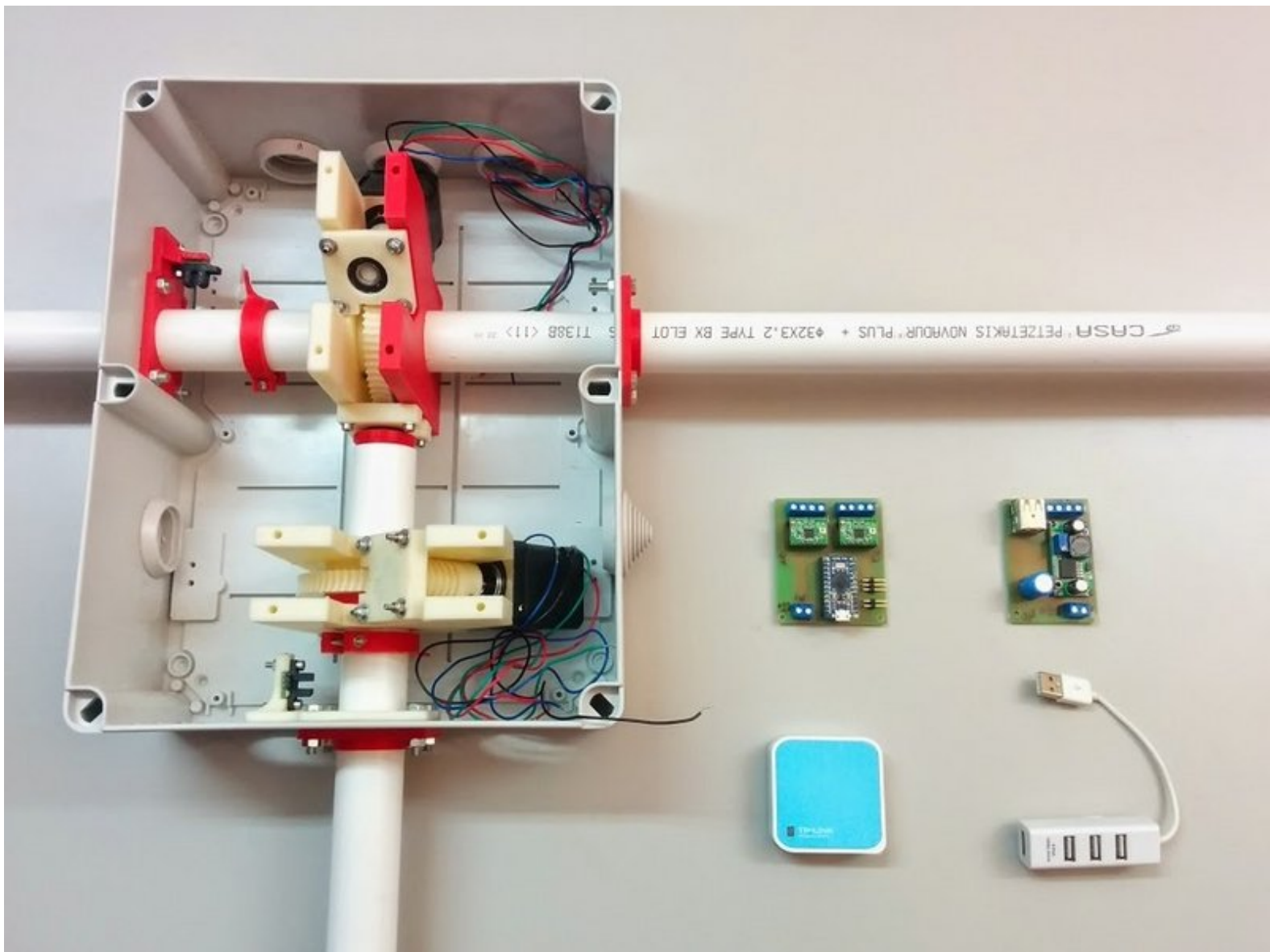


SatNOGS

SatNOGS Ground Station v2 Electronics Assembly

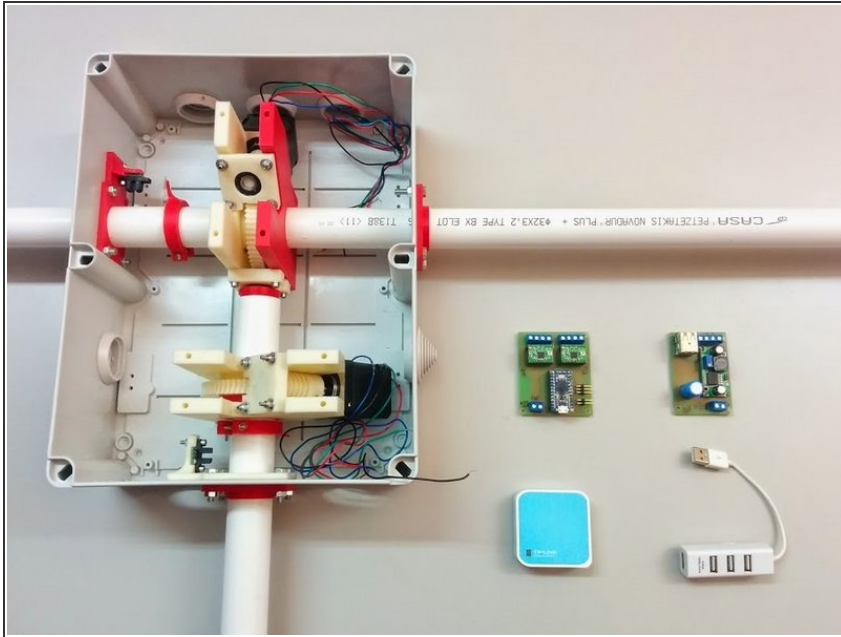
Written By: Pierros Papadeas



INTRODUCTION

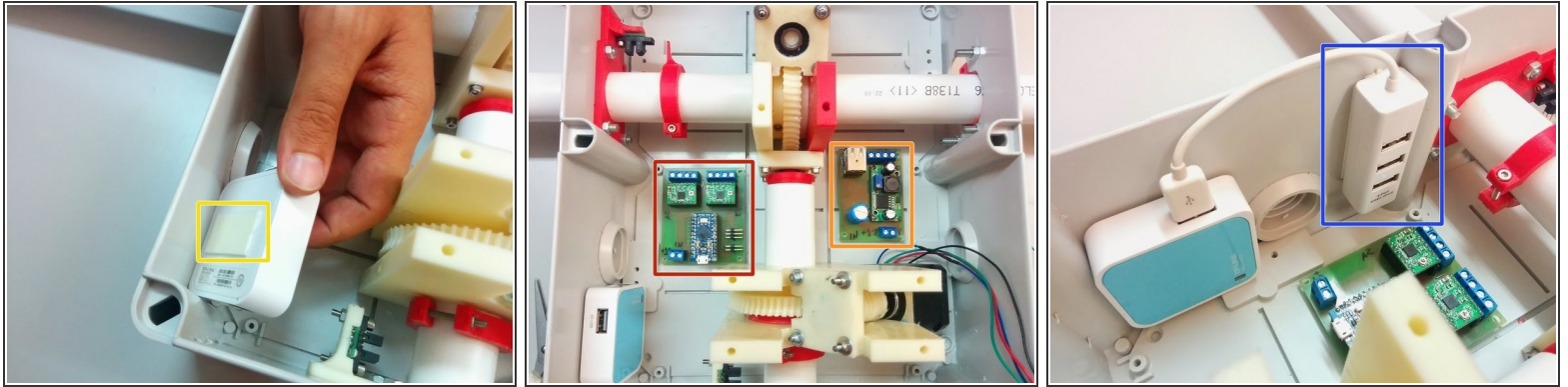
To feel the world, feel the creatures, feel internal .CN:为了更好的了解世界，了解他人，了解自己。
“见天地，见众生，见自己”

Step 1 — SatNOGS Ground Station v2 Electronics Assembly



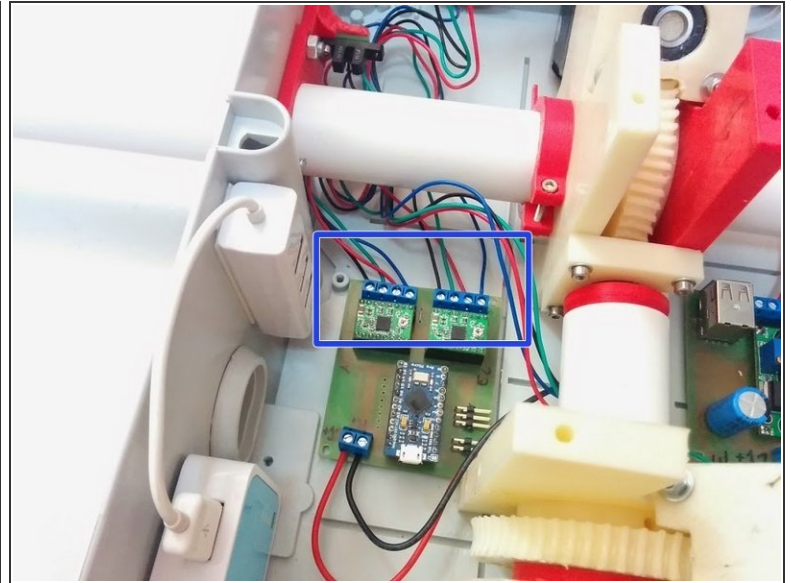
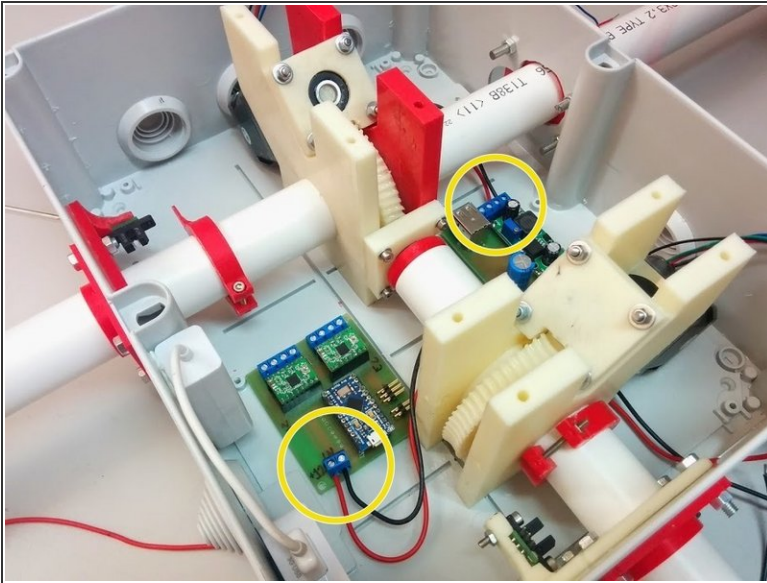
- **Electronics Assembly** You will need: CN: 电路组装
 - The SatNOGS v2 Mechanical Ground Station Assembly. CN: SatNOGS v2 的地面基站机械部分组装
 - TP-Link WR703N
 - SatNOGS PCB. CN: 印刷电路板部分，下同
 - SatNOGS PSU PCB
 - A 4 port USB hub. CN : 4端口的USB hub
 - 2 USB micro cables. CN: 2条USB迷你连接线
 - One double wire for 12V to SatNOGS PCB

Step 2



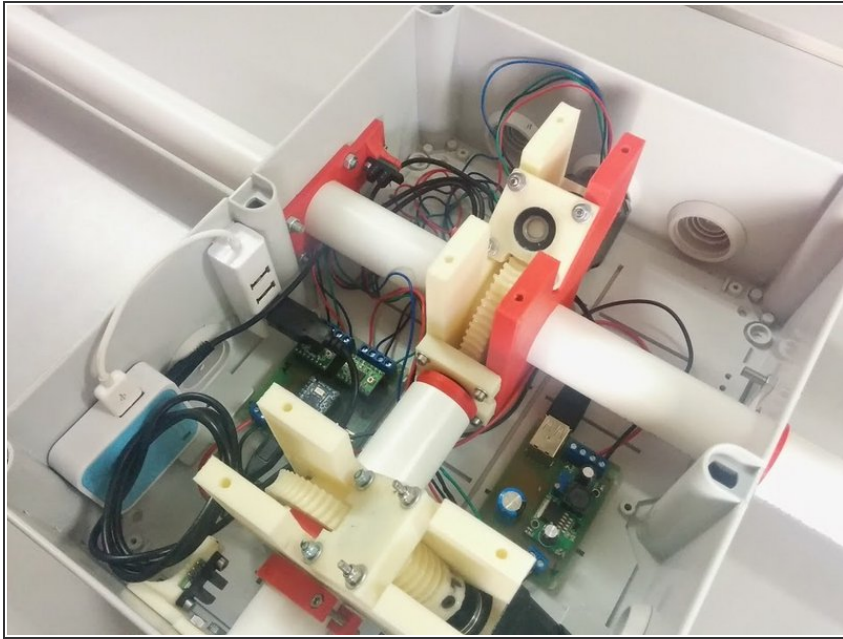
- Using double sided foam tape, place the TP Link on the side as shown. CN:用发泡双面胶把TP Link路由器粘贴在一侧
- Place SatNOGS PCB as shown (with foam tape).CN:把发泡双面胶带及PCB板放在图示位置
- Place SatNOGS PSU PCB as shown (with foam tape).CN:同上
- Stick with foam tape and connect the USB hub as shown.CN:按图示粘贴及连接USB hub

Step 3



- Wires are next:
 - Connect 12V from PSU PCB to PCB using two wires as shown. CN:把两块PCB板的12V电源线(红色)和地线(黑色)接好
 - Connect Stepper motor wires as shown. CN:把步进电机的导线如图示接好
 - ⓘ Refer to Stepper motor documentation for specifics on colors of wires. CN:如果花花绿绿的线分不清请看详细文档——步进电机部分

Step 4



- You will need 2 USB micro cables.CN:需要两个迷你USB线
 - One USB micro cable should start from the PSU PCB and end to TP-Link (for power supply).CN:其中一条从PSU板子连到TP Link , 用于供电
 - The other USB Micro cable should start from the USB Hub and end to the Arduino Micro (for data connection).CN:另外一条从USB hub到迷你Arduino的板子 , 用于数据传输
- You have now finished all electronics setup of your Ground Station.CN:现在你已经完成了电路部分的组装