

# ## Meeting 11-17 ##

- ballistic nylon — buy? stitch over weekend? ~~XXXX~~
- next week meeting reschedule
- orientation: Adithya (2-3 pm)

- \* call after 6pm to discuss design
- will upload code to Git repo

experimental method?  
◦ draft EOD

## design

- 3 IMUs, 2 battery, 4 ESPs

(2)

(3)



→ (2 in device, 1 comm)

IMU feed to ESP

- then data processing

- accel & gyro

- 1 @ base, 1 @ stem

- ~~delta~~ to find other action

→ IMU accrues lots of error for displacement

- no orientation — maybe gravity vector?

\* raw motion may

- complementary filter — less noisy estimate

\* all vals, square, square root

- movement increases

- stationary decreases

- ⊗ offload data, don't comm live quickly

- ⊗ single strip in IMU; leave open strips

28th testing

TSRB

adithya  
rough  
code

## enclosure

- surround in material — foam? extra nylon wrap?

- firehose / bevlar bag?

- 3D case + foam? + fabric

[best print  
body]

(impact) (puncture)

- ⊗ send measurements (test + final)

start documentation