Name: Sahil Chaudhary-Andrew ID: Stchaudh

MCT Project -4

Enercise L

Process Model:

Xtt1 = Xx +St(inx cov y-igh sin vx) + wx Xtt1 = Xx + St(inx sin vx + igh cos vx) + wx Ytt1 = Yx + St inx + wx Ytt1 = Yx + St inx + wx

": "Xyt = f(xt, 4t) + w

- f= Xx+ Stix

Xx +Sx (xx cosex - yx Sin 4x +St(xx sing + yx cosqx Stig i, FZ dt -yx Sinkt) c

天=

Measurement Model? [(min -x)+(my -x)2] [(m2-xt)-+(m2y-x)2]2 + 12 atanz (my-/t, mx-Xt)-42 atan2 (my-1/t, mx-Xx)-41 2nx1 h(xt) H = dh 3 dn[mn-xx]-(my-yx) 0 mn-xx my-xx 0...0

[m-px] 11m-px] [m-px] 11m-px] H7 - My - Xx ) - (my - Xx) o H7 11 m² - px11 11 m² - px11 o min-Xt my-to...o (|m² pt| (|m² pt) my-Vt xt-mn 1m-pH1 1m-pH1 -1 Xt-my mn-Xt 0.00

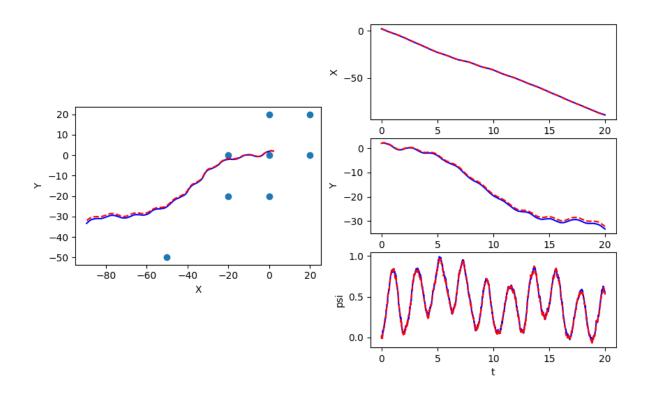
Rough Work tan my - Yt WIT (Xt-mn) (Yt-my) - (1 (Xt-mn)2 My-Yt (Yt-my) + (xt-mn) West  $(\times t^{-m_n})$  $\frac{\left(\chi_{t} - m_{y}\right)^{2}}{\left(\chi_{t} - m_{n}\right)^{2}} + 1$ Xt-my + Xt-mn

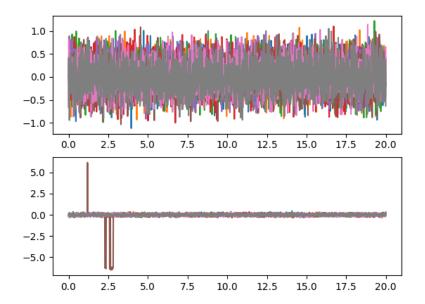
||m'-pt||\_ Xt-mn 2 ( noue) +3 Name: Sahil T Chaudhary

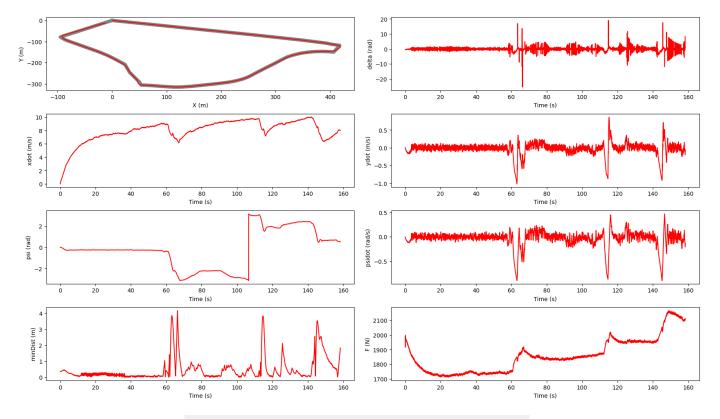
Andrew ID: stchaudh

## **PROJECT-4**

Exercise 2.







## Console - All

Score for completing the loop: 30.0/30.0 Score for average distance: 30.0/30.0 Score for maximum distance: 30.0/30.0

Your time is 158.368

Your total score is : 100.0/100.0

total steps: 158368

maxMinDist: 4.171348433108599 avgMinDist: 0.48647716041721717

INFO: 'main' controller exited successfully.