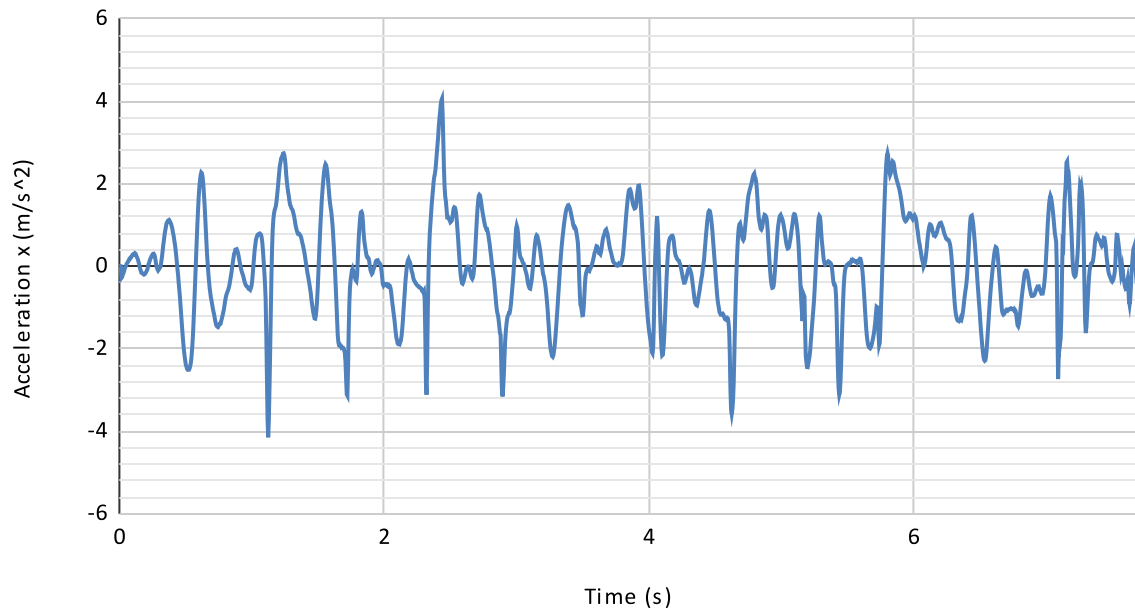


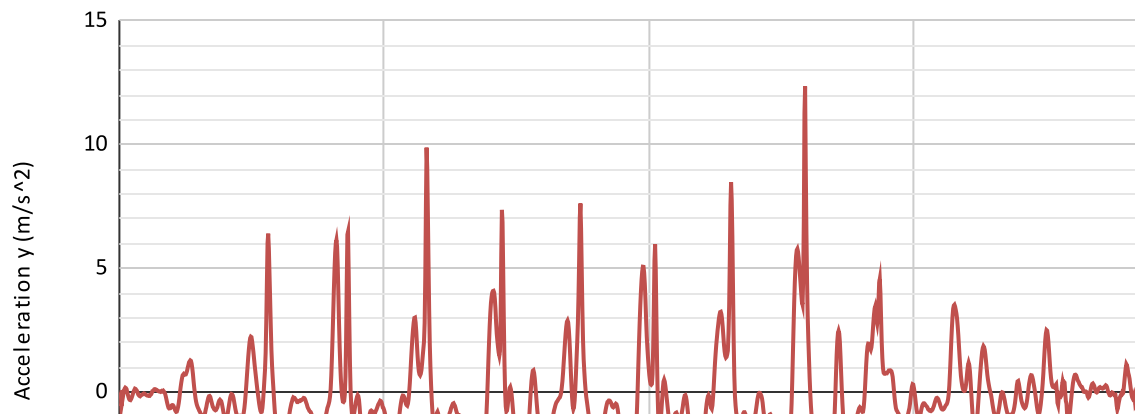
Time (s) Linear A Linear A Linear A Absolute acceleration (m/s^2)

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 0.009704 0.004974 0.001675 0.003424 0.006267
 0.014556 -0.281061 -0.569052 -1.116847 1.284587
 0.019409 -0.259557 -0.405086 -1.045746 1.151108
 0.024291 -0.206467 -0.244567 -0.983925 1.034674
 0.029174 -0.172856 -0.077975 -0.937955 0.956932
 0.034027 -0.120450 0.060245 -0.864978 0.875400
 0.038909 -0.064410 0.140860 -0.756947 0.772632
 0.043762 -0.012530 0.181159 -0.639177 0.664472
 0.048614 0.007536 0.162838 -0.489228 0.515672
 0.053497 0.058018 0.121085 -0.346370 0.371484
 0.058349 0.079183 -0.000618 -0.182733 0.199153
 0.063201 0.110923 -0.106161 -0.030968 0.156630
 0.068084 0.128100 -0.203728 0.129456 0.273265
 0.072937 0.169909 -0.284907 0.225466 0.401094
 0.077789 0.176304 -0.316818 0.281728 0.459160
 0.082672 0.212577 -0.324625 0.300603 0.490849
 0.087524 0.217758 -0.281874 0.275344 0.450207
 0.092376 0.245687 -0.220221 0.239851 0.407907
 0.097259 0.274679 -0.140170 0.194421 0.364548
 0.102111 0.277094 -0.055831 0.153209 0.321514
 0.106964 0.299943 0.030610 0.111207 0.321356
 0.111846 0.296490 0.087100 0.086647 0.320938
 0.116699 0.318602 0.140291 0.090350 0.359656
 0.121551 0.305825 0.128144 0.082111 0.341603
 0.126434 0.263854 0.092088 0.073737 0.289027
 0.131286 0.221317 0.058176 0.067374 0.238547
 0.136138 0.191991 -0.008556 0.097506 0.215503
 0.141021 0.143211 -0.090985 0.139883 0.219898
 0.145874 0.082579 -0.126165 0.117601 0.191225
 0.150726 0.019321 -0.155079 0.097448 0.184171
 0.155609 -0.053898 -0.168772 0.039594 0.181540
 0.160461 -0.104686 -0.142211 -0.013340 0.177091
 0.165313 -0.154613 -0.120705 -0.050034 0.202432
 0.170196 -0.159377 -0.108788 -0.096719 0.215849
 0.175048 -0.175835 -0.085370 -0.174458 0.261996
 0.179901 -0.187322 -0.078737 -0.254714 0.325835

Nick Acceleration x (Trial 1)

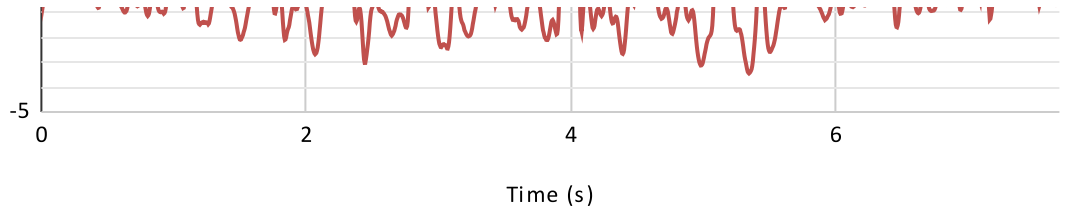


Nick Acceleration y (Trial 1)

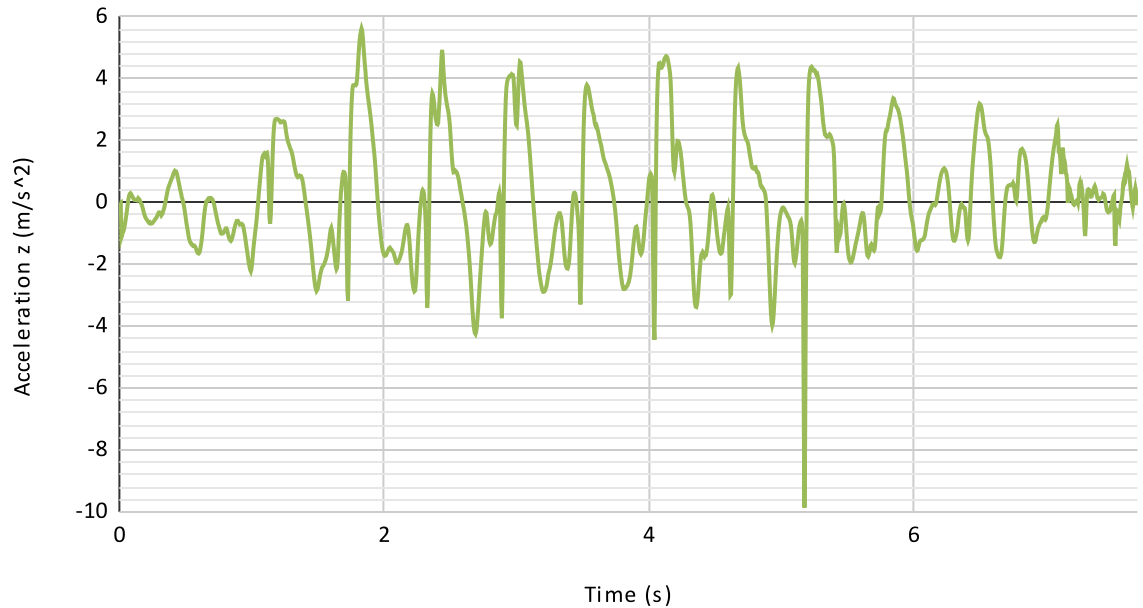


18
75
19

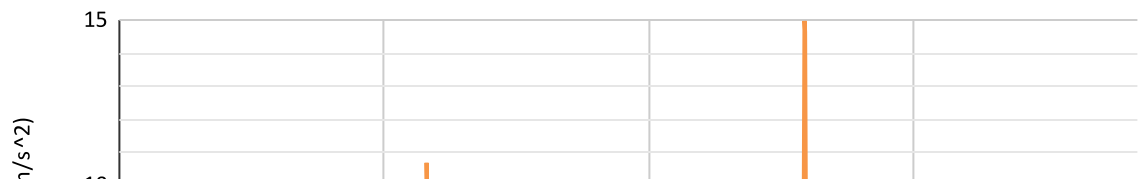
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 0.1993715 -0.148110 -0.106225 -0.511197 0.5427186
 0.2042236 -0.115138 -0.123579 -0.546600 0.5721024
 0.2090759 -0.085770 -0.138686 -0.570592 0.5934359
 0.2139587 -0.031636 -0.142264 -0.604528 0.6218477
 0.2188116 0.0467995 -0.151054 -0.639015 0.6582917
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 0.2577209 0.3075648 0.0749006 -0.617819 0.6941959
 0.2626037 0.2851306 0.1156806 -0.588107 0.6637409
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 0.2771917 0.0476957 0.0978336 -0.499685 0.5114016
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 0.2869267 -0.071062 0.0587946 -0.413334 0.4234996
 0.2917789 -0.099887 0.0418128 -0.364981 0.3807059
 0.2966308 -0.077109 0.0389457 -0.322689 0.3340529
 0.3015136 -0.050427 0.0216836 -0.317038 0.3217559
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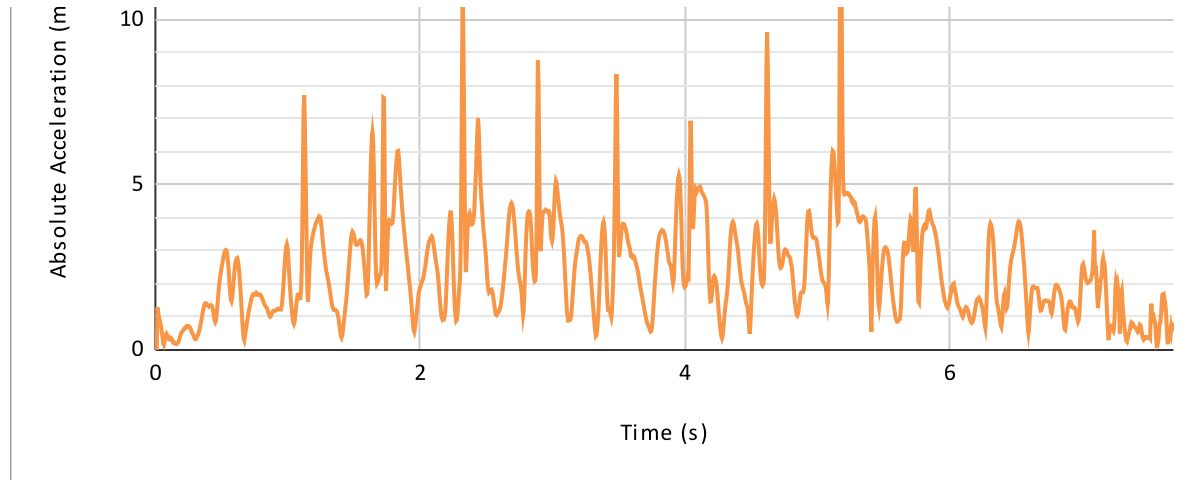
Nick Acceleration z (Trial 1)



Nick Absolute Acceleration (Trial 1)



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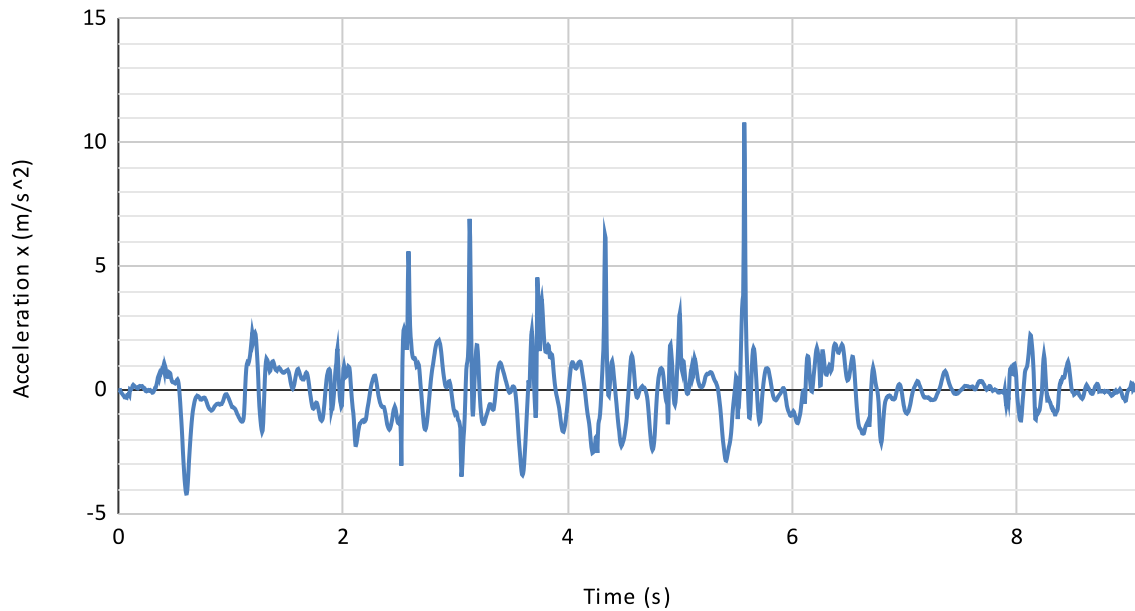
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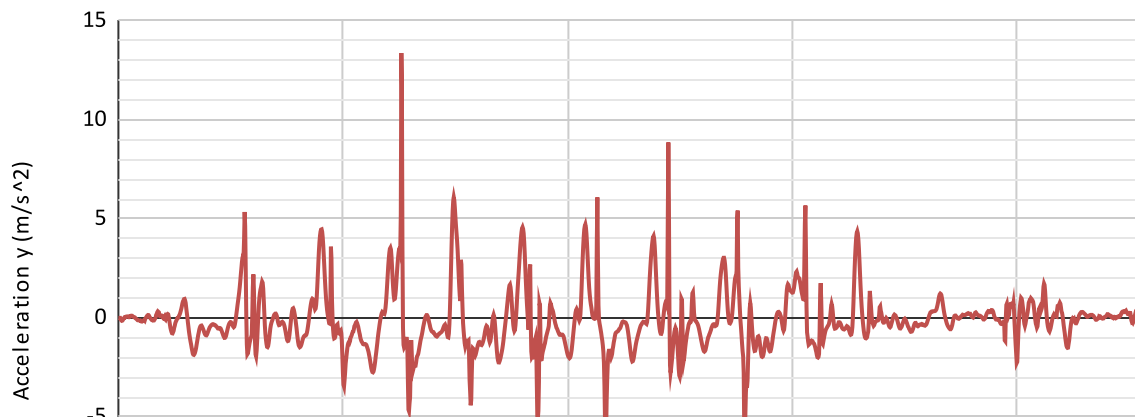
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 0.029327 -0.129157 -0.149786 0.092360 0.218285
 0.034179 -0.155330 -0.141146 0.112305 0.238038
 0.039031 -0.188117 -0.108678 0.088454 0.234570
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 0.048736 -0.244121 -0.007753 0.105882 0.266207
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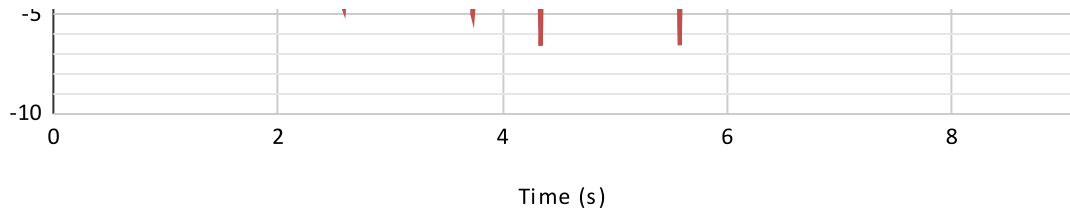
Nick Acceleration x (Trial 2)



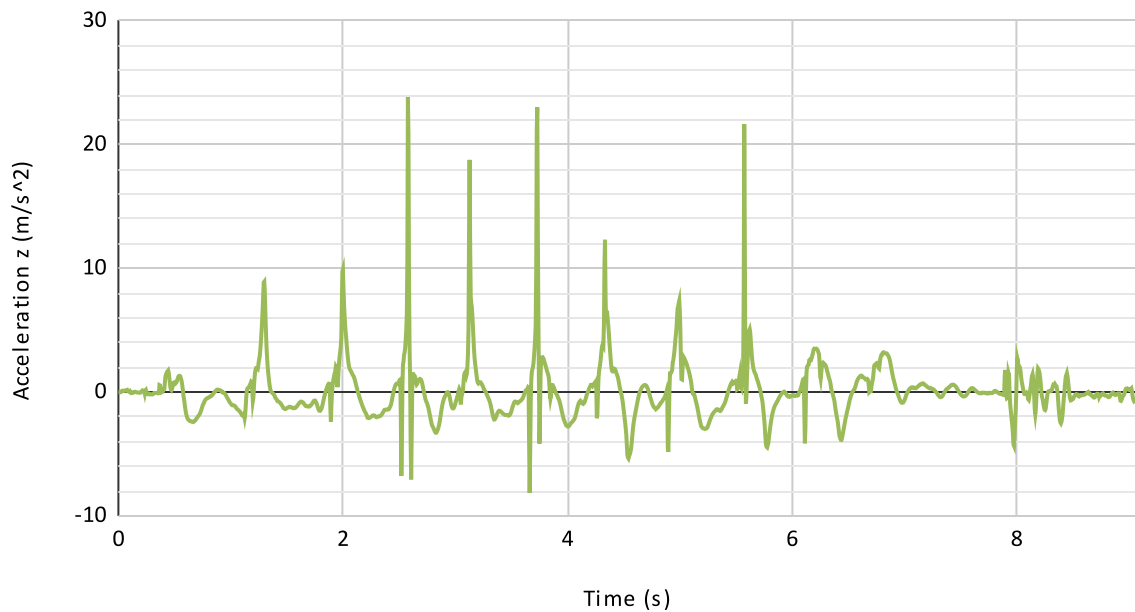
Nick Acceleration y (Trial 2)



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 0.214080 0.122286 -0.166724 0.139355 0.249341
 0.218933 0.118952 -0.144233 0.113232 0.218573
 0.223785 0.096668 -0.124546 0.107501 0.190822
 0.228668 0.048821 -0.105213 0.088801 0.146078
 0.233520 0.053229 -0.137873 -0.104742 0.181144
 0.238372 -0.005896 -0.050250 0.142307 0.151033
 0.243255 -0.040191 -0.001746 0.185907 0.190210
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 0.267547 -0.021718 0.140854 -0.141529 0.200854
 0.272430 -0.023116 0.104035 -0.128550 0.166982
 0.277282 -0.005370 0.039645 -0.179526 0.183930
 0.282165 0.003155 0.004590 -0.187636 0.187718
 0.287017 -0.018766 -0.048686 -0.174683 0.182309
 0.291870 -0.051836 -0.068152 -0.180923 0.200162
 0.296752 -0.077048 -0.108466 -0.184768 0.227685
 0.301605 -0.104310 -0.112866 -0.188562 0.243259
 0.306457 -0.098246 -0.136064 -0.156954 0.229783
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 0.350219 0.497936 0.331435 -0.095418 0.605718
 0.355102 0.563106 0.305027 -0.097788 0.647837
 0.359954 0.620707 0.279029 -0.079203 0.685133
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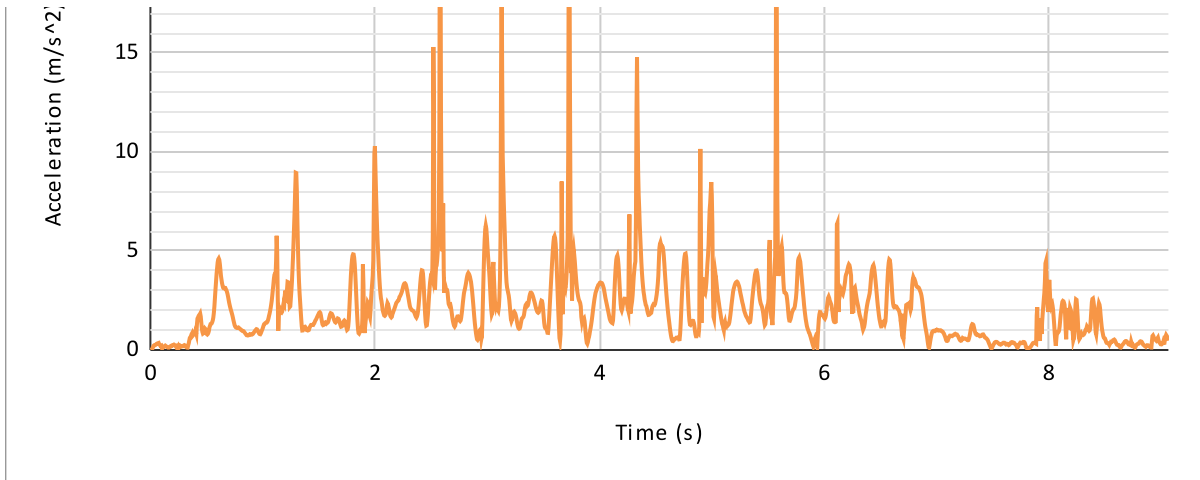
Nick Acceleration z (Trial 2)



Nick Absolute acceleration (Trial 2)



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0.5739440 -2.487448 0.8294630 0.1226793 2.6249683
0.5787963 -2.898922 0.8833763 -0.305719 3.0459100
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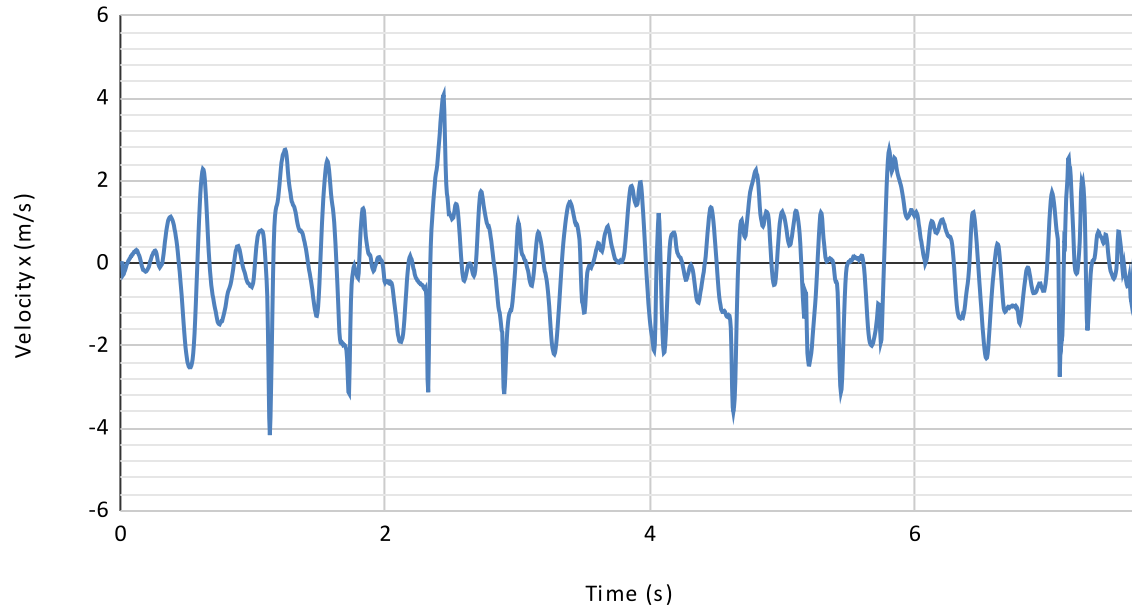
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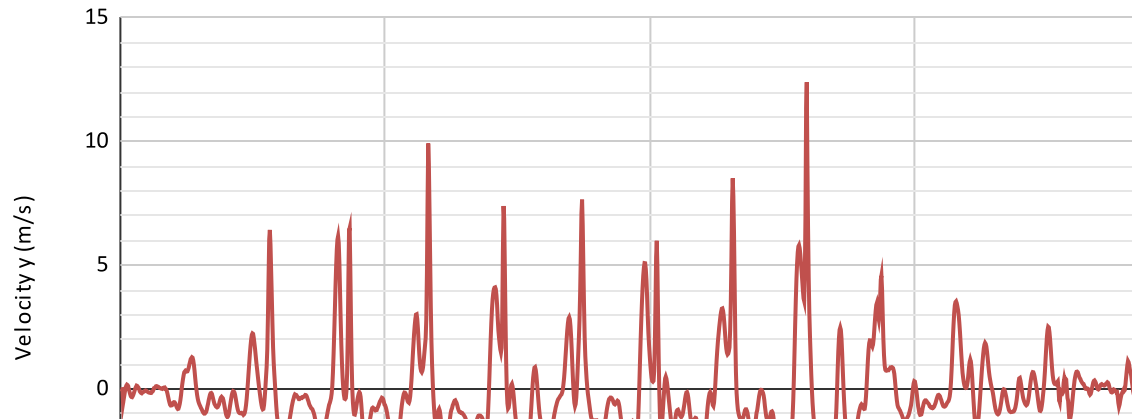
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8.933672: -0.109285 0.253315: -0.614698 0.673770:
8.938554: -0.186101 0.297225: -0.469675 0.586150:
8.943407: -0.265777 0.319756: -0.370846 0.557143(
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8.953142: -0.316597 0.288257: -0.243635 0.492630:
8.957994(-0.323647 0.289266: -0.164944 0.464359:
8.962846: -0.391006 0.318833: 0.009201: 0.504604:
8.967729: -0.435188 0.343224: 0.169119: 0.579477:
8.972582(-0.422974 0.367083: 0.271998: 0.622608(
8.977464: -0.294501 0.306797(0.282104: 0.510331:
8.982317: -0.157190 0.272492: 0.252067: 0.403111(
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8.992052: -0.015103 0.217636: 0.243390: 0.326852:
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9.021227: 0.277877: -0.131903 0.298792: 0.428826(
9.026079: 0.263577(-0.216900 0.096169: 0.354637:
9.030931: 0.180845: -0.196881 -0.236760 0.357103:
9.035814: 0.019849: -0.243640 -0.516755 0.571656:
9.040666: 0.053020: -0.184615 -0.651582 0.679303:
9.045519: 0.169829(-0.050934 -0.734908 0.755993(
9.050401: 0.137828: 0.080933: -0.693211 0.711399(
9.055254: 0.121645(0.191971: -0.622693 0.662870(
9.060106: 0.011332: 0.145965: -0.575907 0.594225(
9.064989: -0.075413 0.000391: -0.459193 0.465344:

Veloc. x	y	z	Absolute
0.0048792	0	0	0
0.0091512	-0.002018	-0.005031	0.0072933748
0.0043045	-0.003773	-0.009422	0.0136798557
-0.282373	0.0002990	0.0007230	0.0093991103
-0.260695	-0.571416	-1.122094	1.290497267
-0.207393	-0.406672	-1.050702	1.156445334
-0.173568	-0.245355	-0.988617	1.039536738
-0.120901	-0.078018	-0.942329	0.961378074
-0.064597	0.0607364	-0.868938	0.8794235458
-0.012543	0.1416418	-0.760335	0.7761189692
0.007696	0.1819936	-0.641915	0.6673358346
0.0583514	0.1635321	-0.491268	0.517838345
0.0796447	0.1213774	-0.347654	0.372868552
0.111507	-0.000877	-0.183252	0.200016298
0.128823	-0.106917	-0.030728	0.1576805325
0.170749	-0.204914	0.1303180	0.2749019551
0.177254	-0.286367	0.2266972	0.4031813173
0.213621	-0.318384	0.2831504	0.461479675
0.218882	-0.326096	0.3020007	0.4931323036
0.246958	-0.283092	0.2765943	0.4522891405
0.276017	-0.221101	0.2409117	0.4097935247
0.278494	-0.140645	0.1952646	0.3662133665
0.301399	-0.055893	0.1538507	0.3230739844
0.297983	-0.0876526	0.1116910	0.3229249236
0.320117	0.0308974	0.0870774	0.3225894544
0.307216	0.1409424	0.0907685	0.3613576295
0.265031	0.1286819	0.0824923	0.343142875
0.222319	0.0924532	0.0740799	0.2903071931
0.192810	0.0582964	0.0677747	0.239649369
0.143759	-0.008799	0.0980865	0.2165662311
0.082826	-0.091512	0.1405082	0.2208960547
0.019236	-0.126847	0.1181236	0.1921363158
-0.054283	-0.155870	0.0977829	0.1850646203
-0.105315	-0.169527	0.0396583	0.1824107684
-0.155380	-0.142849	-0.013494	0.1780126988
-0.160190	-0.121265	-0.050392	0.203453211
-0.176717	-0.109259	-0.097377	0.2170084956
	-0.085768	-0.175499	0.2634225694

Nick velocity x (Trial 1)

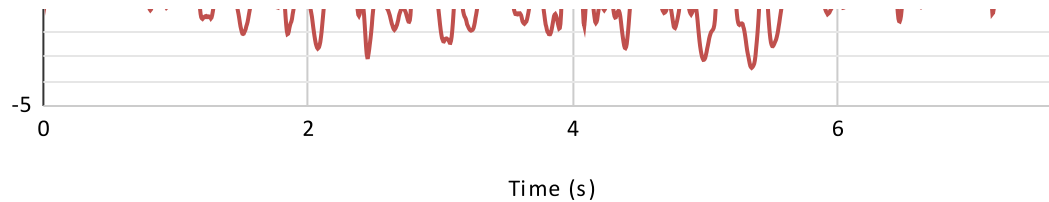


Nick velocity y (Trial 1)



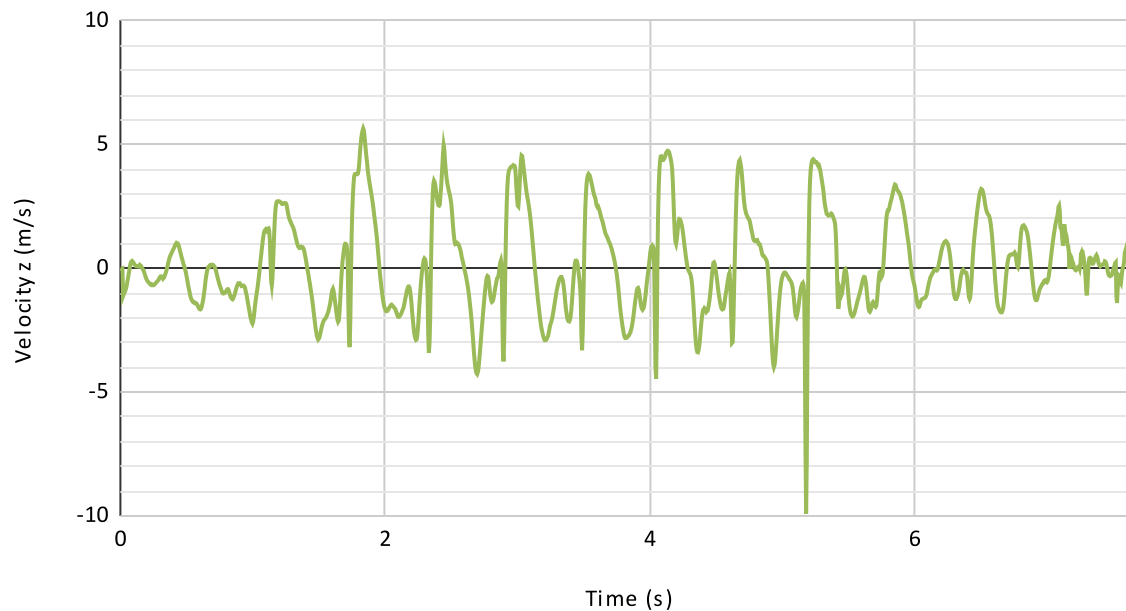
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-0.129847
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-0.189109
-0.221864
-0.245406
-0.286830
-0.284669
-0.297216
-0.291997
-0.303523
-0.215331
-0.218432
-0.184975
-0.148640
-0.188866
0.0316415
0.0160072
0.0268805
0.0723127
0.1004746
0.1834536
0.2128747
0.1929236
0.1738427
0.1510665
0.1315524
0.1104510
0.0995833
0.0777820
0.0687331
0.1023740

-0.188270 -0.079054 -0.256183 0.3276180647
 -0.202004 -0.051487 -0.348929 0.4064627593
 -0.194550 -0.059862 -0.416398 0.4634930661
 -0.173516 -0.087013 -0.471237 0.5096547225
 -0.148749 -0.106782 -0.513763 0.5454233394
 -0.115626 -0.124215 -0.549311 0.5749301951
 -0.086057 -0.139372 -0.573461 0.5964029159
 -0.031599 -0.142976 -0.607545 0.6249535544
 0.047115 -0.151758 -0.642155 0.6615269027
 0.084022 -0.139895 -0.658522 0.678447274
 0.138760 -0.147553 -0.642986 0.6741410661
 0.189919 -0.113429 -0.676079 0.7113523223
 0.214257 -0.092269 -0.667551 0.7071455982
 0.259417 -0.041459 -0.681638 0.7305233177
 0.273446 -0.0406249 -0.673187 0.7277422236
 0.304133 -0.0524207 -0.642628 0.7128944639
 0.309011 -0.0753659 -0.620763 0.6975108624
 0.286389 -0.1162587 -0.590875 0.6668369312
 0.234458 -0.1231537 -0.555266 0.6152007541
 0.146260 -0.1154817 -0.525750 0.5578195813
 0.047748 -0.0982840 -0.502032 0.5137986003
 -0.026155 -0.0881627 -0.469838 0.4787608758
 -0.071477 -0.0590381 -0.415222 0.4254507792
 -0.100316 -0.0420088 -0.366649 0.3824400761
 -0.077420 -0.0390932 -0.324251 0.3356536404
 -0.050626 -0.0217869 -0.318604 0.3233385122
 -0.031740 -0.0209387 -0.330287 0.3324768417
 0.010031 -0.0078684 -0.368784 0.3690398126
 0.121019 -0.0250763 -0.417214 0.4351739689
 0.233963 -0.0505710 -0.386142 0.4543571579
 0.372575 -0.0369677 -0.359644 0.5192158636
 0.522660 -0.0578127 -0.271840 0.5919828717
 0.637507 -0.0253652 -0.206063 0.6704893728
 0.769812 -0.014802 -0.121879 0.7795663308
 0.867595 -0.081484 -0.019475 0.8716549101
 0.955350 -0.185831 0.0802164 0.9765828163
 1.037780 -0.308228 0.2035549 1.101576933
 1.077071 -0.431694 0.3079457 1.200543811
 1.107080 -0.536946 0.4086465 1.296516075

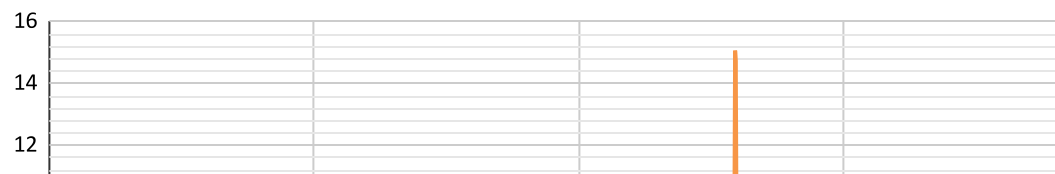


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 0.155293
 0.169379
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 0.164422
 0.122871
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 0.097024
 0.049068
 0.053343
 -0.006008
 -0.040404
 -0.047915
 -0.026722
 -0.007846
 0.001535
 -0.021828
 -0.023185
 -0.005375
 0.003117
 -0.018938
 -0.052150
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 -0.104802
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 -0.073847
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 0.011775
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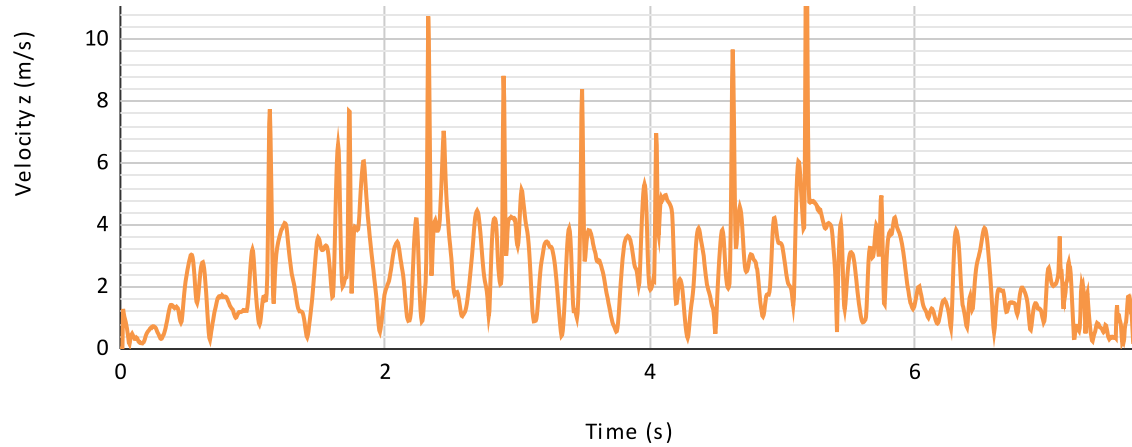
Nick velocity z (Trial 1)



Nick Absolute Velocity (Trial 1)



1.1230511 -0.628663 0.4942337 1.378670866
1.1318997 -0.661927 0.5415821 1.418685024
1.1054340 -0.658564 0.6039845 1.421442652
1.0721973 -0.652038 0.6578133 1.416861331
1.0368355 -0.606799 0.7197177 1.400444711
0.9830516 -0.539860 0.7642063 1.357154313
0.9206762 -0.524852 0.8199900 1.339973848
0.8239820 -0.530369 0.8820814 1.318457842
0.7530124 -0.565589 0.9483513 1.336538521
0.6439923 -0.637383 0.9924547 1.343870644
0.5448194 -0.707361 1.0285848 1.362064139
0.4223758 -0.766227 1.0118137 1.337657687
0.2745000 -0.802360 1.0063080 1.31599852
0.1062143 -0.792298 0.9475386 1.239723458
-0.061174 -0.710782 0.8595616 1.117080048
-0.209022 -0.601382 0.7541781 0.9870622968
-0.408635 -0.447869 0.6549461 0.8925896333
-0.590878 -0.253103 0.5521327 0.8475320135
-0.775050 -0.001094 0.4386746 0.890670753
-0.996367 0.2079494 0.3572022 1.078741845
-1.221266 0.3935685 0.2601273 1.309243695
-1.444970 0.5513907 0.1525475 1.554110907
-1.655508 0.6792076 0.0914854 1.791767161
-1.853688 0.7159789 -0.003888 1.987165243
-2.032656 0.7480339 -0.104825 2.168472977
-2.166761 0.7302945 -0.225612 2.297637073
-2.283181 0.7107412 -0.371053 2.419874031
-2.394167 0.7178312 -0.515183 2.552015556
-2.445139 0.7842061 -0.672556 2.654440192
-2.498883 0.8688561 -0.798428 2.763488827
-2.519504 0.9975208 -0.919460 2.861539405
-2.516667 1.0961087 -1.052326 2.939813432
-2.517146 1.2099555 -1.168356 3.027390733
-2.483015 1.2511775 -1.239195 3.044082243
-2.419344 1.2892207 -1.298091 3.033210697
-2.329542 1.2695920 -1.316541 2.961749373
-2.176505 1.1619951 -1.368177 2.821237407
-1.966171 0.9838392 -1.381102 2.596409211
-1.709201 0.7523020 -1.403013 2.335806703



0.6264728
0.6465281
0.7300157
0.7859858
0.8664158
0.8554812
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0.8659149
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0.7030662
0.6668528
0.5122011
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0.3152398
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0.3532438
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0.3901078
0.2781362
0.0858482
-0.192982
-0.504519
-0.875001

-1.361563	0.4632668	-1.386510	1.997801309	-1.209548
-0.988368	0.1955965	-1.396033	1.721768234	-1.593969
-0.572989	-0.027251	-1.417383	1.529224302	-2.021784
-0.170119	-0.234178	-1.455405	1.484061754	-2.500516
0.242043	-0.387298	-1.507580	1.575347288	-2.913856
0.640568	-0.499045	-1.569343	1.767049848	-3.273403
1.030694	-0.579358	-1.619400	2.005144293	-3.623158
1.368071	-0.642830	-1.650908	2.238409152	-3.868307
1.685285	-0.696857	-1.659629	2.465814393	-4.095217
1.918908	-0.762978	-1.636515	2.634880802	-4.198931
2.087112	-0.803216	-1.560676	2.727082909	-4.194862
2.220225	-0.867734	-1.447060	2.788619438	-4.059266
2.285868	-0.925488	-1.327002	2.800485101	-3.756814
2.268191	-0.964721	-1.160293	2.724283893	-3.365474
2.188012	-0.990256	-0.966222	2.588754929	-2.917173
2.034049	-0.987921	-0.759107	2.385304494	-2.554751
1.799938	-0.957787	-0.517571	2.103586301	-2.204080
1.552905	-0.923511	-0.331552	1.836943873	-1.879855
1.242636	-0.835002	-0.176542	1.507507492	-1.580252
0.921103	-0.702087	-0.051834	1.159356322	-1.304392
0.594678	-0.593658	0.0411201	0.841315208	-1.073436
0.295684	-0.445302	0.0625248	0.538250527	-0.872934
0.060964	-0.333273	0.0892693	0.35058045	-0.736353
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-0.347722	-0.164494	0.1424878	0.410231540	-0.493668
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-1.348130	-0.737984	-0.276192	1.561533262	-0.320683
-1.421841	-0.723096	-0.383556	1.640623947	-0.379365
-1.453497	-0.669708	-0.479515	1.670667433	-0.382397
-1.472057	-0.618482	-0.583329	1.699942054	-0.387271
-1.479967	-0.503002	-0.680866	1.704970431	-0.370017

-1.446279	-0.409512	-0.739024	1.674996498	-0.342472
-1.427913	-0.340256	-0.827060	1.684860494	-0.314133
-1.396010	-0.309512	-0.890264	1.684407098	-0.306238
-1.393515	-0.338453	-0.971822	1.732307654	-0.301941
-1.329690	-0.367346	-1.012114	1.710972504	-0.310853
-1.269023	-0.463053	-1.014326	1.689305298	-0.366190
-1.204233	-0.601327	-1.002699	1.678463824	-0.396441
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-1.062213	-0.890671	-0.965058	1.689083247	-0.523187
-0.963543	-1.022836	-0.918494	1.678774805	-0.598453
-0.851242	-1.095099	-0.892486	1.649366623	-0.653995
-0.765766	-1.131755	-0.844450	1.606353835	-0.709036
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-0.609191	-0.887408	-0.972030	1.450363685	-0.789769
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-0.507073	-0.537596	-1.143912	1.361891536	-0.833392
-0.433101	-0.375695	-1.194787	1.325262895	-0.824844
-0.336969	-0.222465	-1.231909	1.296411437	-0.800480
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-0.142625	-0.076877	-1.221072	1.231791032	-0.742874
-0.012732	-0.090952	-1.144847	1.148539273	-0.700116
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0.200340	-0.229070	-0.991803	1.037490795	-0.631724
0.303814	-0.376278	-0.883999	1.007681532	-0.610546
0.341804	-0.532174	-0.800714	1.020421962	-0.582848
0.408122	-0.684720	-0.715648	1.071260401	-0.562899
0.412286	-0.810081	-0.657321	1.121742463	-0.555501
0.418777	-0.901162	-0.604244	1.16300848	-0.555856
0.377342	-0.948628	-0.608499	1.188512091	-0.547376
0.333195	-0.969489	-0.600784	1.18823003	-0.554282
0.252605	-0.978114	-0.635844	1.193665408	-0.578596
0.168537	-0.969827	-0.670428	1.190994949	-0.565447
0.078244	-0.959199	-0.716386	1.199755487	-0.574545
-0.004046	-0.984183	-0.709285	1.213149032	-0.558179
-0.071472	-0.994623	-0.708903	1.223494524	-0.559460
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-0.224149	-0.956452	-0.755447	1.239280526	-0.410709

-0.286364	-0.831934	-0.855830	1.227477842	-0.337957
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-0.408775	-0.390335	-1.091233	1.229044141	-0.201694
-0.452855	-0.062084	-1.250166	1.331217342	-0.173343
-0.479863	0.2959646	-1.400373	1.509692764	-0.168543
-0.487711	0.6812923	-1.544199	1.756916271	-0.167802
-0.502557	1.0604031	-1.688970	2.056637187	-0.209158
-0.536141	1.4331216	-1.851134	2.401676545	-0.251803
-0.536353	1.7495016	-1.994851	2.707010948	-0.297863
-0.558718	2.0144982	-2.084600	2.952276591	-0.345027
-0.572624	2.1945460	-2.187341	3.150936881	-0.405092
-0.531565	2.2520609	-2.233987	3.216372316	-0.458956
-0.481646	2.2326884	-2.153483	3.139169906	-0.518726
-0.365712	2.0722303	-1.984676	2.892556248	-0.577238
-0.181362	1.8552492	-1.740311	2.550218656	-0.634818
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2.2658201	0.8735043	2.9671962	3.834216443	-0.137743
2.3782561	0.8504784	3.0891916	3.990308153	-0.243097
2.4827682	0.7606464	3.2042136	4.124289791	-0.303664
2.5558241	0.6231017	3.3128758	4.230345311	-0.365091
2.5401354	0.3613998	3.3841914	4.246864949	-0.386898
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1.953566	-0.868192	2.9706521	3.65991448	-0.199634
1.903131	-0.939433	2.8985846	3.592527832	-0.171933
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1.744237	-1.064141	2.7024537	3.387928572	-0.107144
1.650267	-1.143630	2.5613938	3.254542283	-0.062807
1.554240	-1.206677	2.4311330	3.127647013	-0.023106
1.439062	-1.248483	2.2734023	2.966144439	0.050034
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1.245481	-0.763826	0.2853344	1.488700132	-0.803794
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0.0814496	-0.481032	-1.079039	1.184228185	-0.481071
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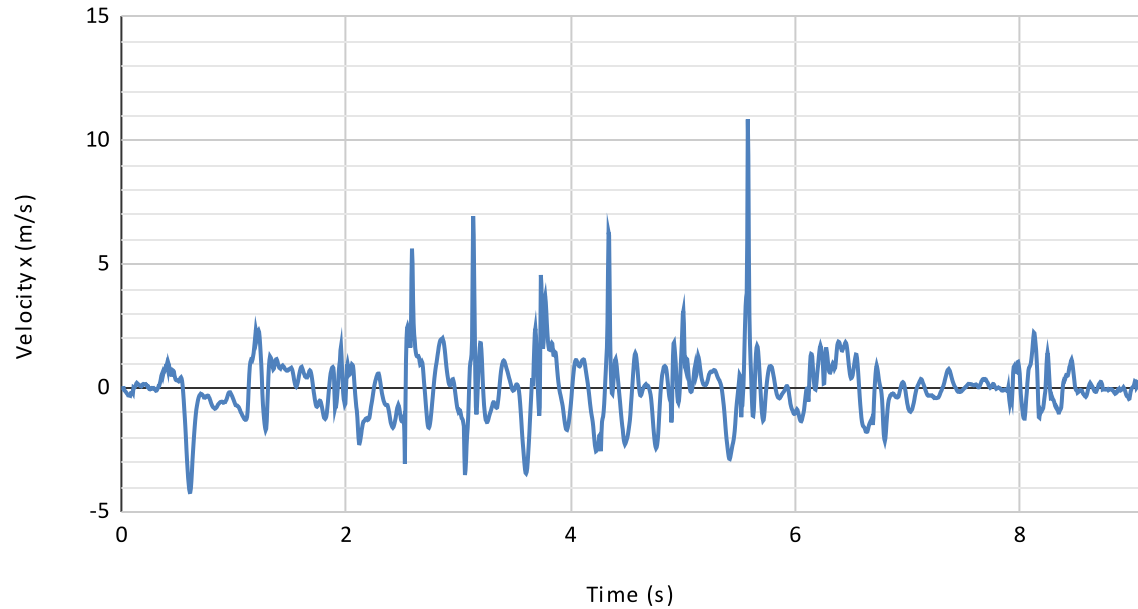
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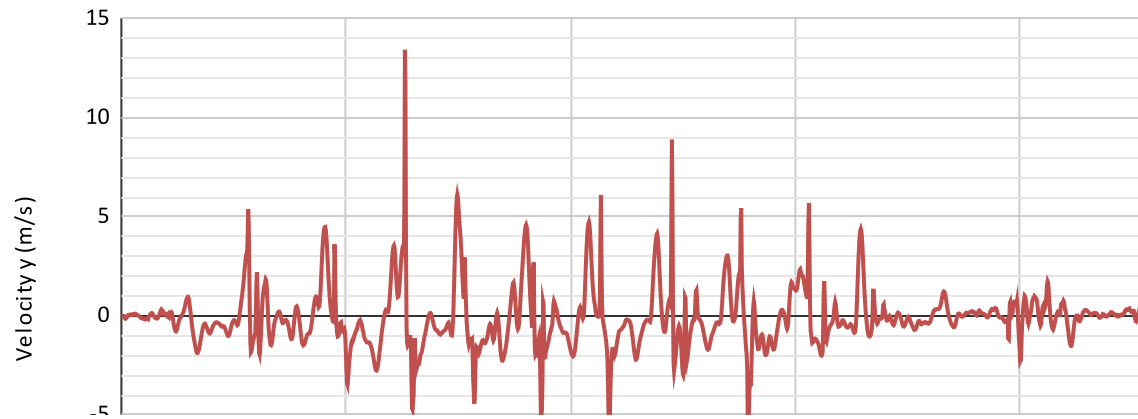
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y	z	Absolute
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-0.084484	-0.008634	0.121244
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-0.150492	0.092857	0.219392
-0.141752	0.112792	0.239185
-0.109067	0.088912	0.235741
-0.051533	0.101013	0.249175
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0.026117	0.101067	0.305240
0.017569	0.136863	0.316351
0.043396	0.148650	0.335140
0.065596	0.155887	0.337441
0.070941	0.158956	0.349910
0.064960	0.180424	0.288359
0.073132	0.105721	0.253459
0.076538	0.055228	0.207665
0.077590	0.045548	0.173770
0.042099	0.021995	0.194998
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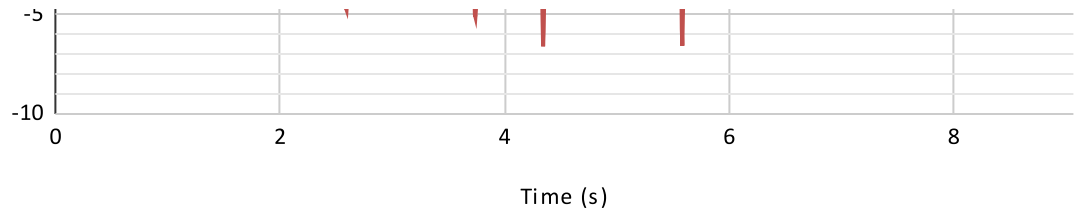
Nick velocity x (Trial 2)



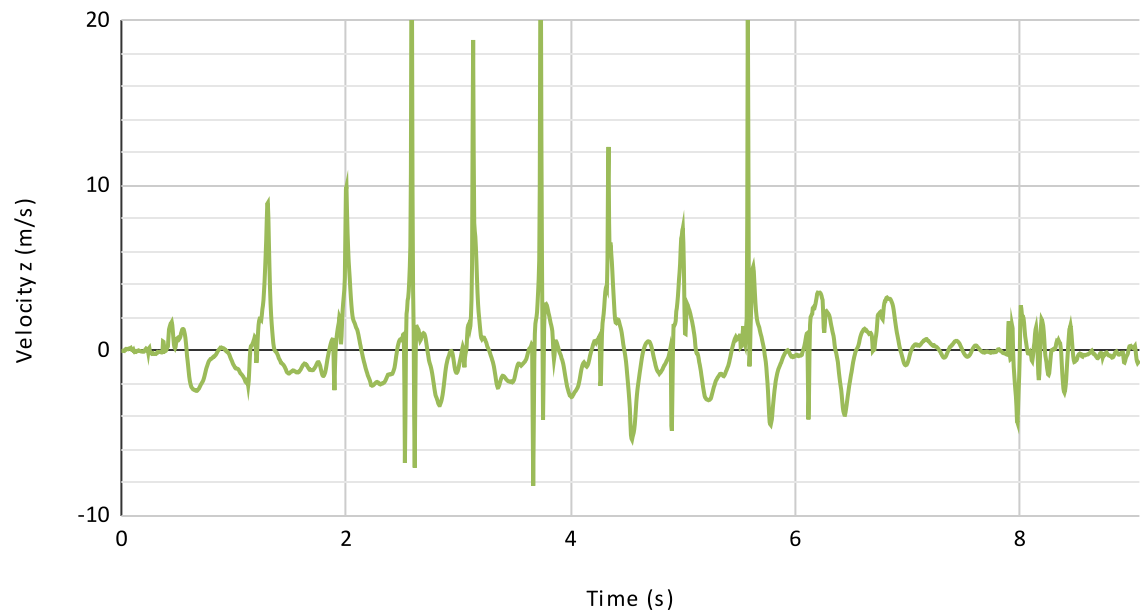
Nick velocity y (Trial 2)



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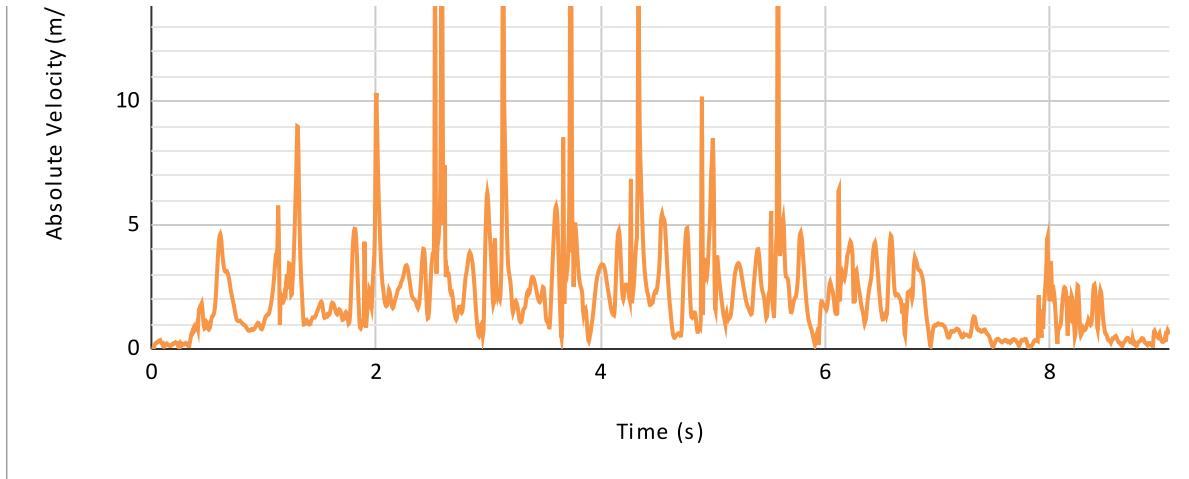
Nick velocity z (Trial 2)



Nick Absolute Velocity (Trial 2)



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