X Axis Plot

1e−7

Halved Substraction Average

Y Axis Plot

1e−7

Halved Substraction Average
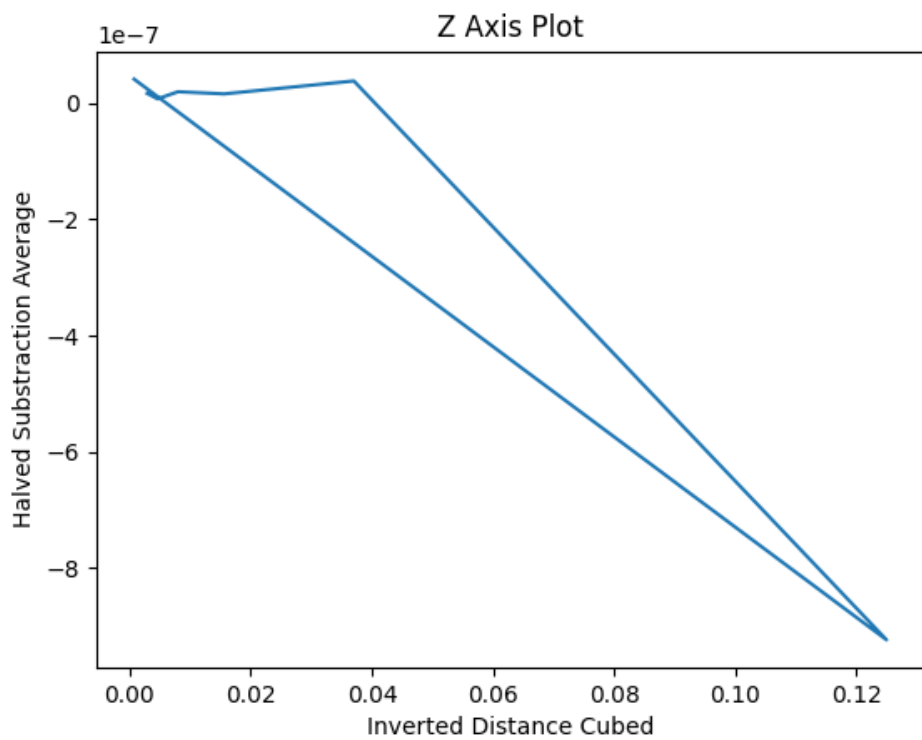
Inverted Distance Cubed

Magnetic Moment -10064.621659029315

Magnetic Moment -38367.2032792706

Detailed Calculation Steps

Inverted distance^3 for 11 = 0.000751314800902

Inverted distance^3 for 2 = 0.125000000000000

Inverted distance^3 for 3 = 0.037037037037037

Inverted distance^3 for 4 = 0.015625000000000

Inverted distance^3 for 5 = 0.008000000000000

Inverted distance^3 for 6 = 0.004629629629630

Inverted distance^3 for 7 = 0.002915451895044

Halved substraction: (-4.936304499205087e-07 - -6.838134215017065e-07) / 2 = 0.000000095091486

X axis sensor 1: halved substraction = 0.000000095091486

Halved substraction: (-1.3931083020667728e-06 - -1.0268102662116043e-06) / 2 = -0.000000183149018

X axis sensor 2: halved substraction = -0.000000183149018

Halved substraction: (-6.161901240063593e-07 - -6.263394385665529e-07) / 2 = 0.000000005074657

X axis sensor 3: halved substraction = 0.000000005074657

Halved substraction: (-8.508800111287758e-07 - -9.530566552901024e-07) / 2 = 0.000000051088322

X axis sensor 4: halved substraction = 0.000000051088322

Halved substraction: (-1.2853513513513512e-06 - -1.3391805460750852e-06) / 2 = 0.000000026914597

X axis sensor 5: halved substraction = 0.000000026914597

Halved substraction: (-2.236091092209857e-06 - -2.2837154556313996e-06) / 2 = 0.000000023812182

X axis sensor 6: halved substraction = 0.000000023812182

Halved substraction: (-5.878850556438792e-06 - -5.884902730375427e-06) / 2 = 0.000000003026087

X axis sensor 7: halved substraction = 0.000000003026087

Slope calculation: slope = -0.000001848260739

X axis slope = -0.000001848260739

X axis magnetic moment = -9241.303695556865932

Halved substraction: (-5.917895070422535e-07 - -6.122596182170543e-07) / 2 = 0.000000010235056

Y axis sensor 1: halved substraction = 0.000000010235056

Halved substraction: (-3.9401309859154994e-08 - 4.140713217054265e-07) / 2 = -0.000000226736316

Y axis sensor 2: halved substraction = -0.000000226736316

Halved substraction: (-4.838948661971831e-07 - -5.730154554263567e-07) / 2 = 0.000000044560295

Y axis sensor 3: halved substraction = 0.000000044560295

Halved substraction: (-8.816951338028169e-07 - -9.069629883720932e-07) / 2 = 0.000000012633927

Y axis sensor 4: halved substraction = 0.000000012633927

Halved substraction: (-1.257387323943662e-06 - -1.3067703139534884e-06) / 2 = 0.000000024691495

Y axis sensor 5: halved substraction = 0.000000024691495

Halved substraction: (-2.248712103286385e-06 - -2.261974587209302e-06) / 2 = 0.000000006631242

Y axis sensor 6: halved substraction = 0.000000006631242

Halved substraction: (-5.709598591549295e-06 - -5.819687984496125e-06) / 2 = 0.000000055044696

Y axis sensor 7: halved substraction = 0.000000055044696

Slope calculation: slope = -0.000002012924332

Y axis slope = -0.000002012924332

Y axis magnetic moment = -10064.621659029315197

Halved substraction: (-5.868995060240964e-07 - -6.693616763285024e-07) / 2 = 0.000000041231085

Z axis sensor 1: halved substraction = 0.000000041231085

Halved substraction: (-1.5413892220309811e-06 - 3.0598687439613533e-07) / 2 = -0.000000923688048

Z axis sensor 2: halved substraction = -0.000000923688048

Halved substraction: (-6.640002685025818e-07 - -7.402477938808374e-07) / 2 = 0.000000038123763

Z axis sensor 3: halved substraction = 0.000000038123763

Halved substraction: (-9.267166058519794e-07 - -9.585056344605476e-07) / 2 = 0.000000015894514

Z axis sensor 4: halved substraction = 0.000000015894514

Halved substraction: (-1.3277845335628228e-06 - -1.366917874396135e-06) / 2 = 0.000000019566670

Z axis sensor 5: halved substraction = 0.000000019566670

Halved substraction: (-2.295142857142857e-06 - -2.309743961352657e-06) / 2 = 0.000000007300552

Z axis sensor 6: halved substraction = 0.000000007300552

Halved substraction: (-5.893296041308089e-06 - -5.9266731078905e-06) / 2 = 0.000000016688533

Z axis sensor 7: halved substraction = 0.000000016688533

Slope calculation: slope = -0.000007673440656

Z axis slope = -0.000007673440656

Z axis magnetic moment = -38367.203279270601342