

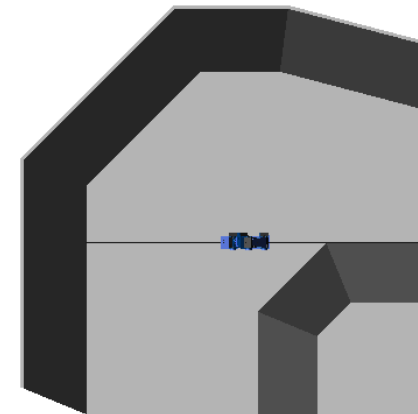
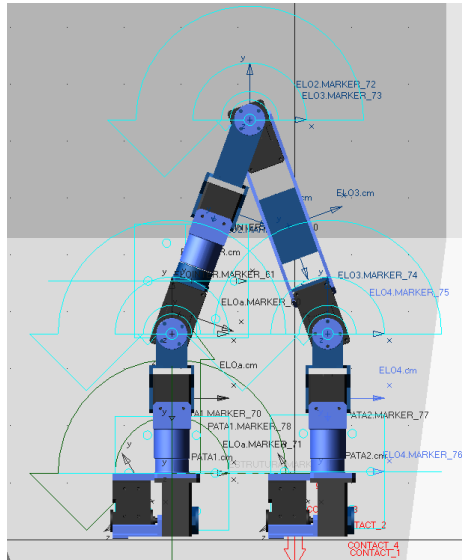
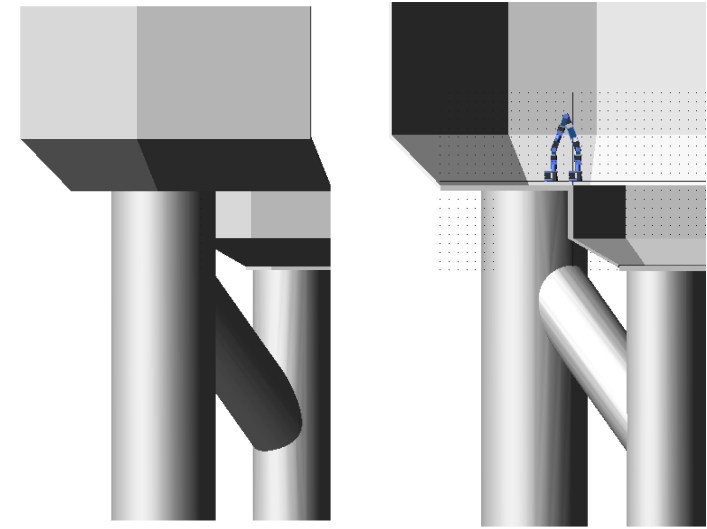
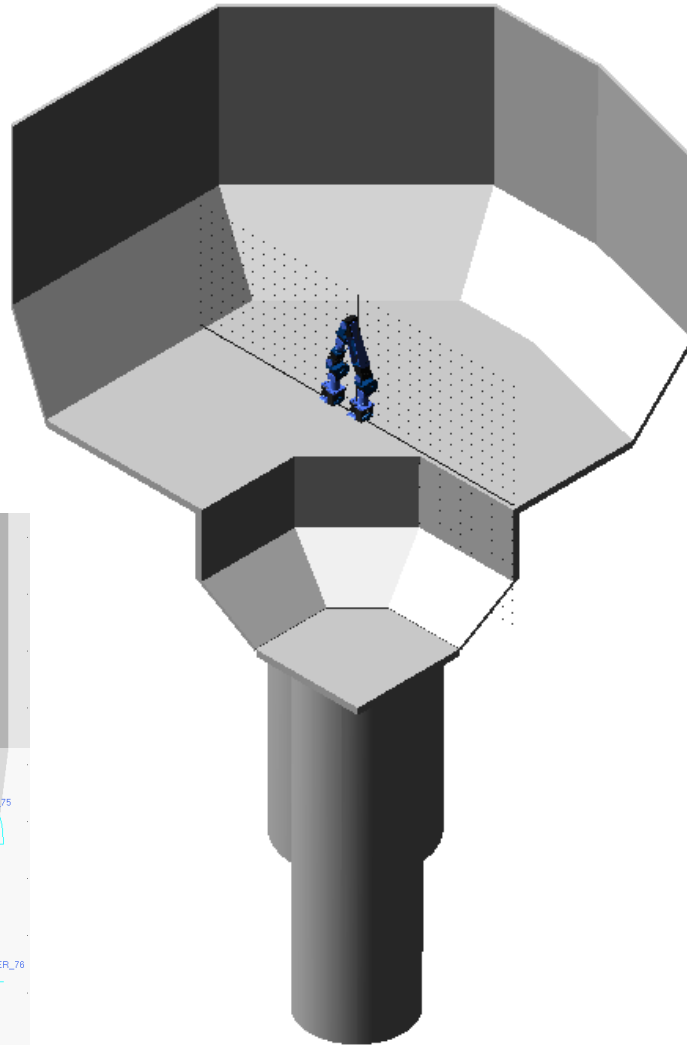
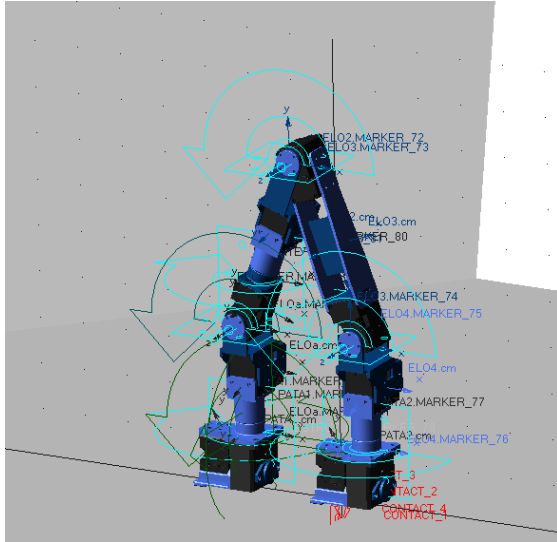
March - 2024

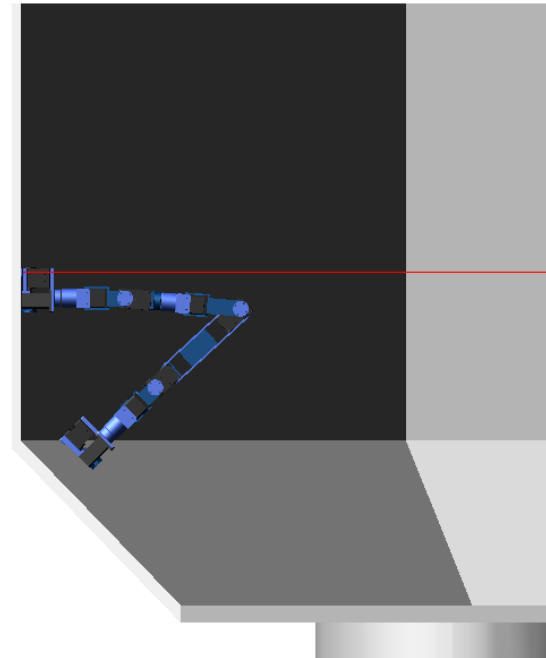
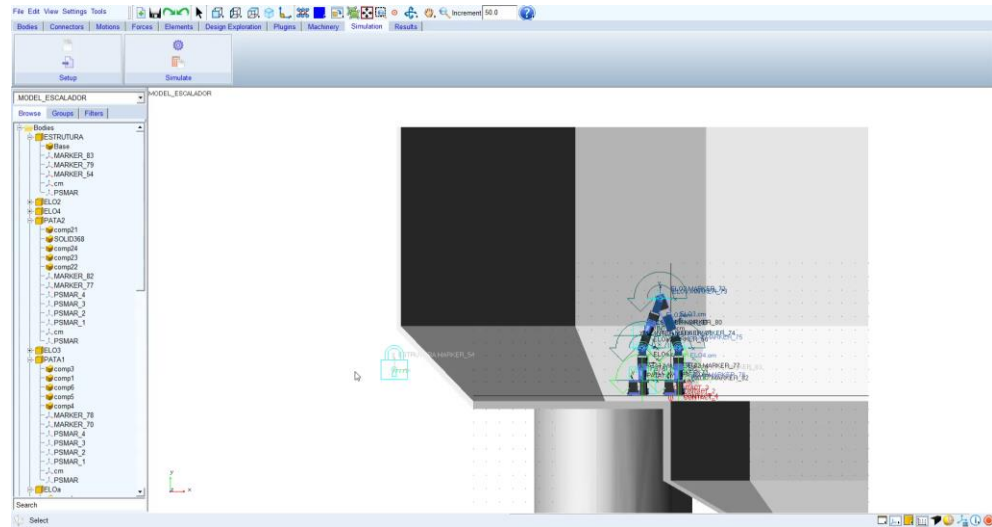
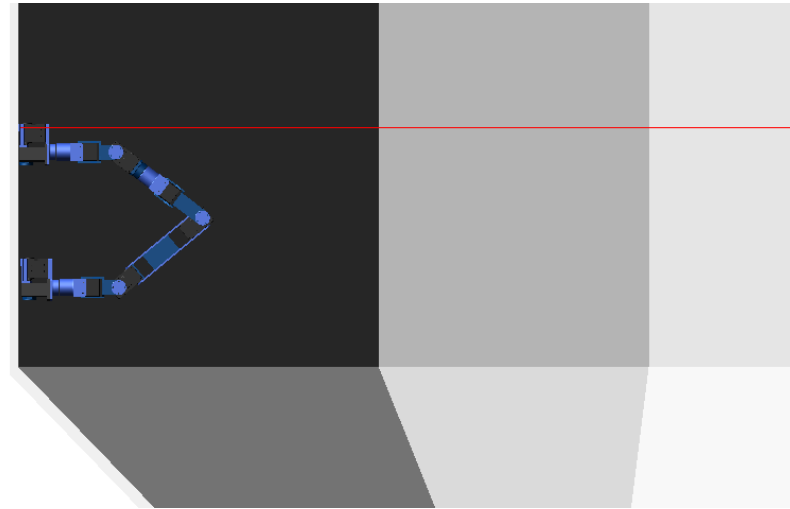
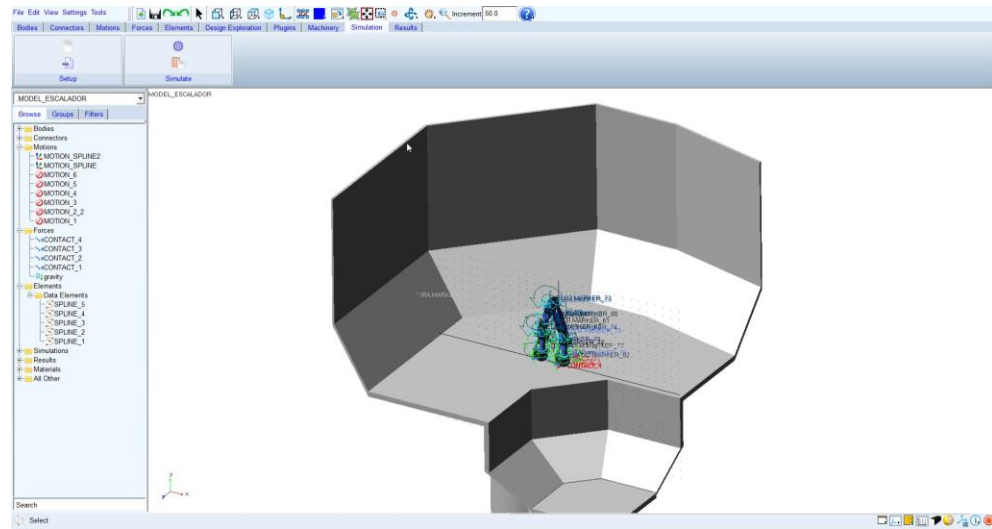
Simulation – ADAMs View

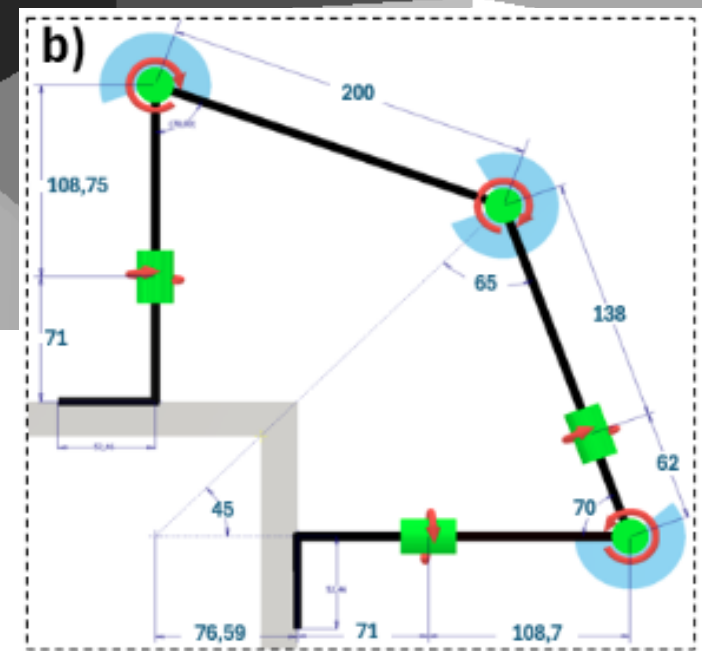
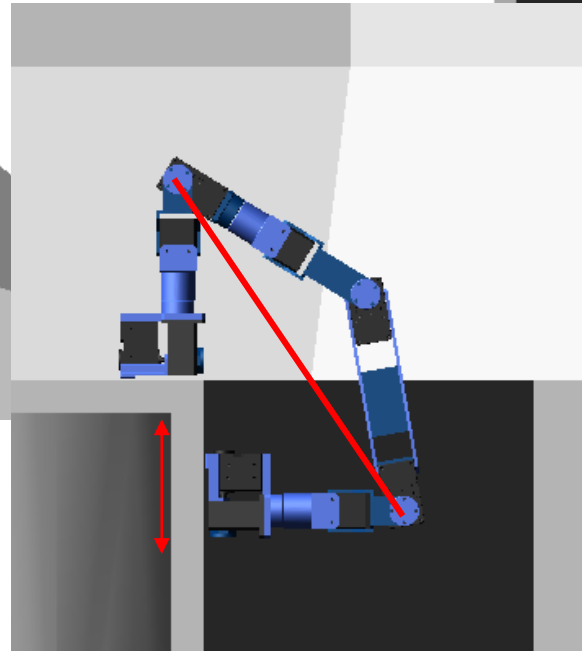
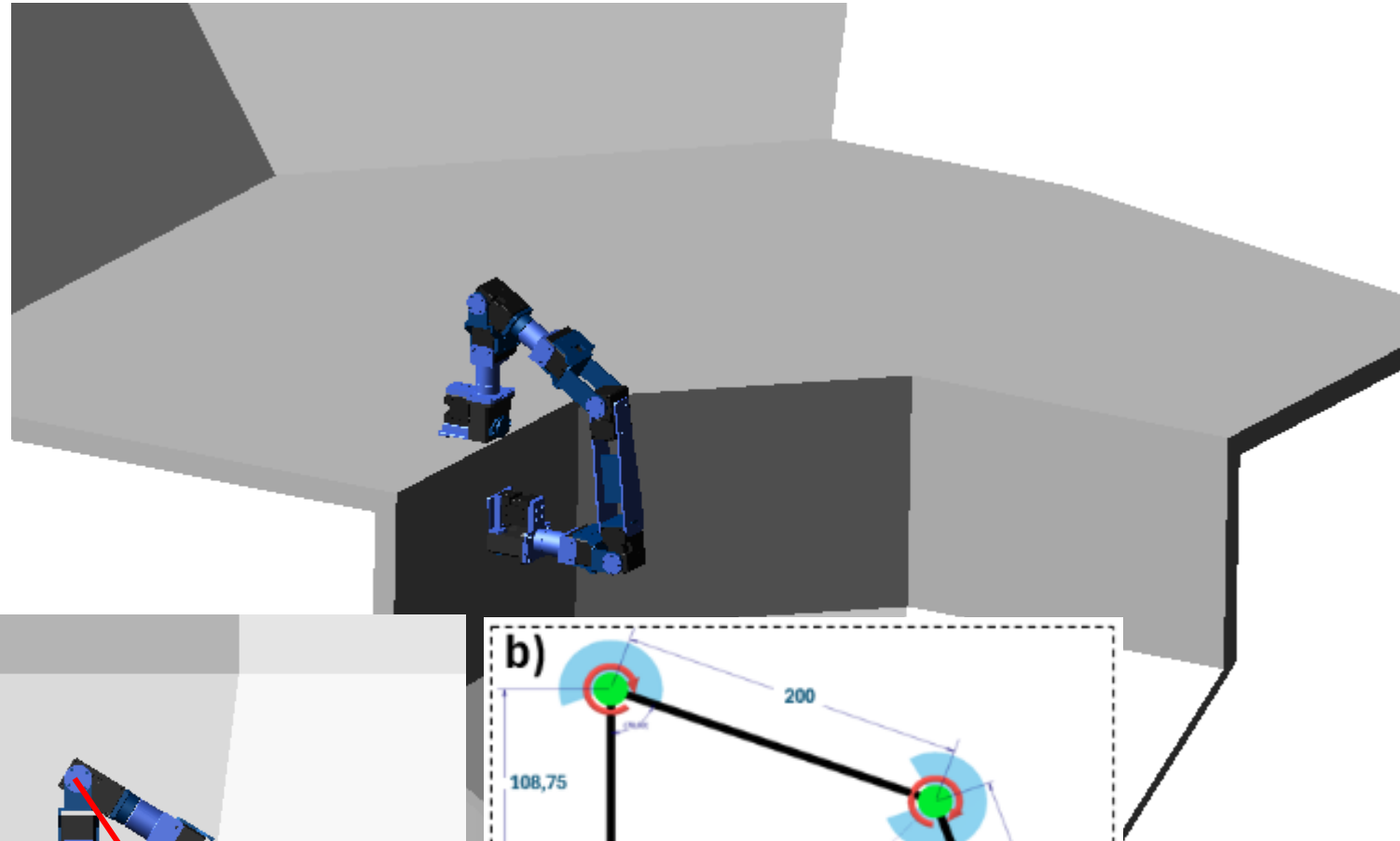
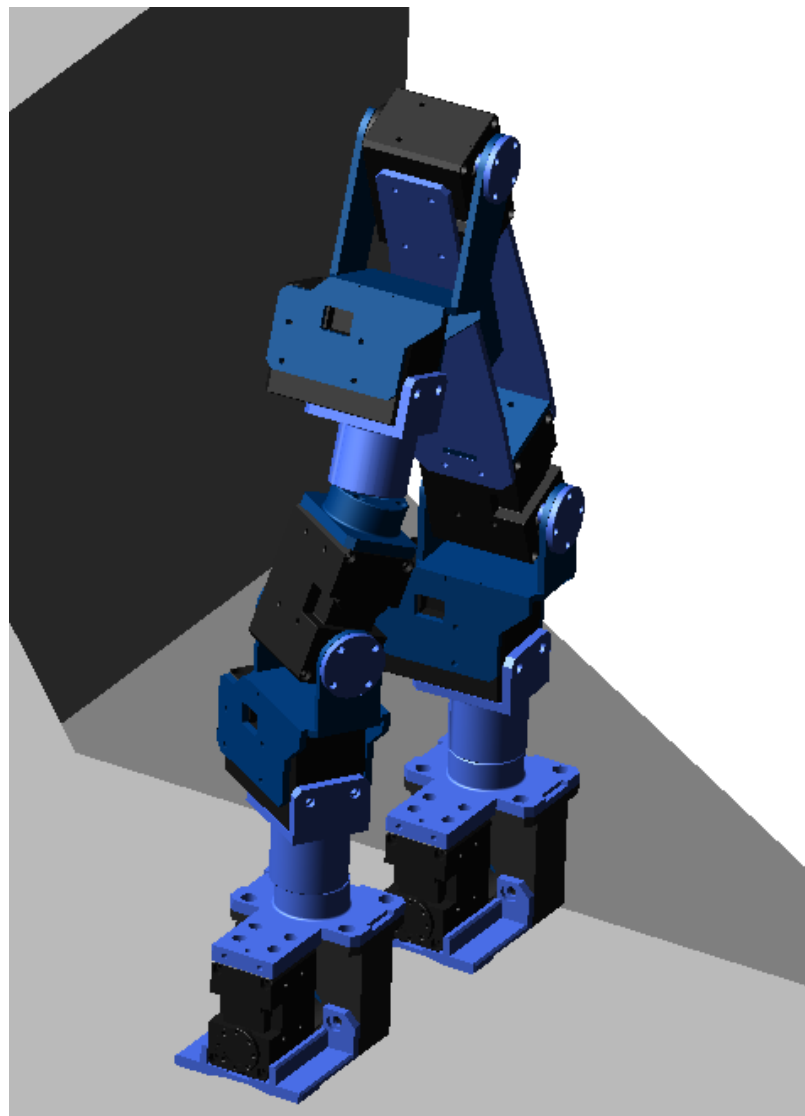
Article CLAWAR 2024

By: Verônica Caroline Herbst Pazda

Figures - Simulation







Modify spline ...

Name | SPLINE_6

| | X | Y |
|----|------|-------|
| 1 | 0.0 | 0.0 |
| 2 | 2.0 | 30.0 |
| 3 | 4.0 | 30.0 |
| 4 | 6.0 | 30.0 |
| 5 | 8.0 | 30.0 |
| 6 | 10.0 | 30.0 |
| 7 | 12.0 | 30.0 |
| 8 | 14.0 | 30.0 |
| 9 | 16.0 | 50.0 |
| 10 | 18.0 | 100.0 |
| 11 | 20.0 | 100.0 |
| 12 | 22.0 | 140.0 |
| 13 | 24.0 | 500.0 |
| 14 | 26.0 | 230.0 |

Type | $y=f(x)$ (2D) |
View as | Tabular Data |
X Units | time |
Y Units | length |

☐ Linear extrapolation

Append row to X and Y data
Prepend row to X and Y data

Insert Row After
Remove Row

Modify spline ...

Name | SPLINE_8

| | X | Y |
|----|------|-------|
| 1 | 0.0 | 0.0 |
| 2 | 2.0 | 5.0 |
| 3 | 4.0 | 100.0 |
| 4 | 6.0 | 150.0 |
| 5 | 8.0 | 150.0 |
| 6 | 10.0 | 150.0 |
| 7 | 12.0 | 120.0 |
| 8 | 14.0 | 81.0 |
| 9 | 16.0 | 81.0 |
| 10 | 18.0 | 81.0 |
| 11 | 20.0 | 120.0 |
| 12 | 22.0 | 81.0 |
| 13 | 24.0 | 81.0 |
| 14 | 26.0 | 81.0 |

Type | $y=f(x)$ (2D) |
View as | Tabular Data |
X Units | time |
Y Units | length |

☐ Linear extrapolation

Append row to X and Y data
Prepend row to X and Y data

Insert Row After
Remove Row

OK Apply Cancel

Modify spline ...

Name | SPLINE_7

| | X | Y |
|----|------|-------|
| 1 | 0.0 | 0.0 |
| 2 | 2.0 | -20.0 |
| 3 | 4.0 | -20.0 |
| 4 | 6.0 | -20.0 |
| 5 | 8.0 | -20.0 |
| 6 | 10.0 | -20.0 |
| 7 | 12.0 | -20.0 |
| 8 | 14.0 | -20.0 |
| 9 | 16.0 | -20.0 |
| 10 | 18.0 | -20.0 |
| 11 | 20.0 | -20.0 |
| 12 | 22.0 | -20.0 |
| 13 | 24.0 | -50.0 |
| 14 | 26.0 | -80.0 |

Type | $y=f(x)$ (2D) |
View as | Tabular Data |
X Units | time |
Y Units | length |

☐ Linear extrapolation

Append row to X and Y data
Prepend row to X and Y data

Insert Row After
Remove Row

$\text{STEP}(\text{time}, 0, 0, 22, 0) + \text{STEP}(\text{time}, 22, 0, 24, -90d)$

Modify spline ...

Name | SPLINE_9

| | X | Y |
|----|------|--------|
| 1 | 0.0 | 0.0 |
| 2 | 2.0 | -20.0 |
| 3 | 4.0 | 50.0 |
| 4 | 6.0 | -50.0 |
| 5 | 8.0 | -100.0 |
| 6 | 10.0 | -100.0 |
| 7 | 12.0 | -120.0 |
| 8 | 14.0 | -120.0 |
| 9 | 16.0 | -120.0 |
| 10 | 18.0 | -120.0 |
| 11 | 20.0 | -150.0 |
| 12 | 22.0 | -200.0 |
| 13 | 24.0 | -200.0 |
| 14 | 26.0 | -200.0 |

Type | $y=f(x)$ (2D) |
View as | Tabular Data |
X Units | time |
Y Units | length |

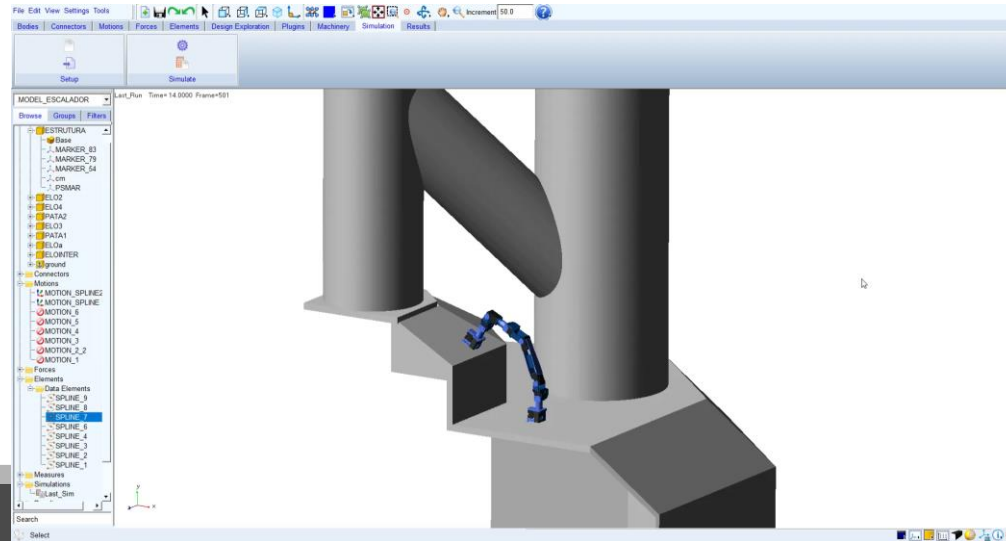
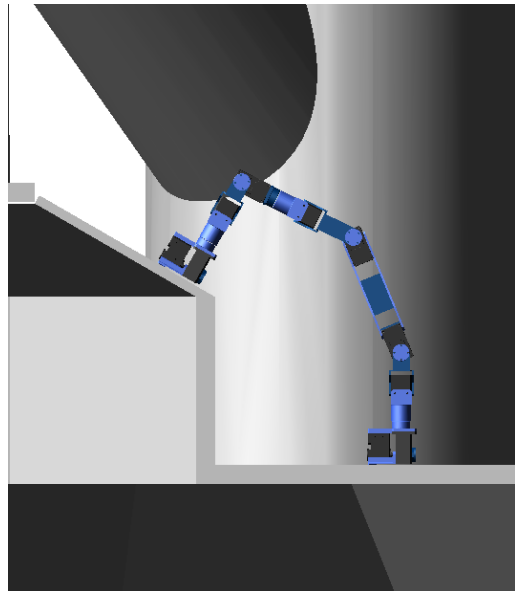
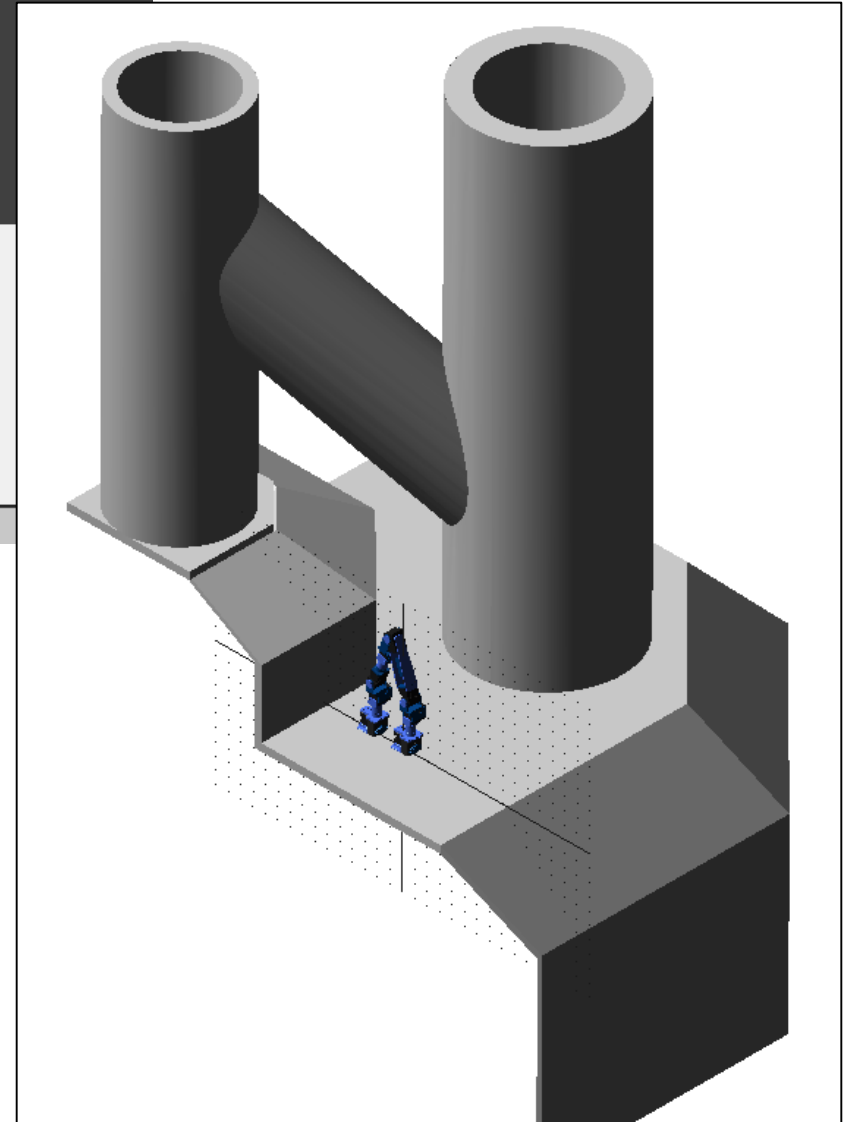
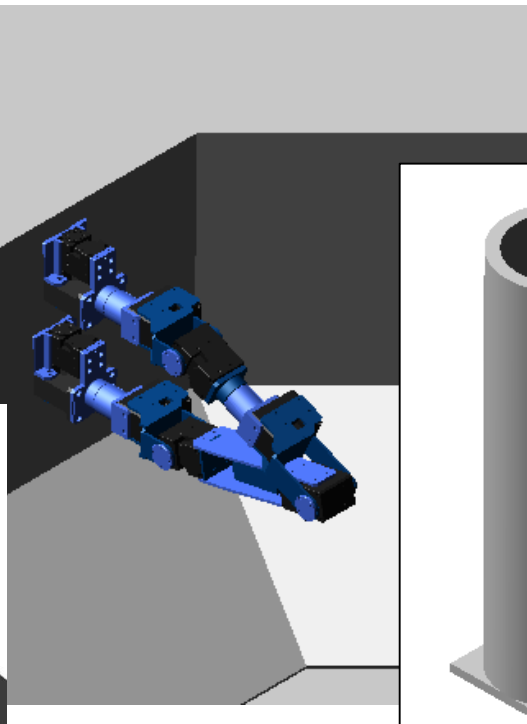
☐ Linear extrapolation

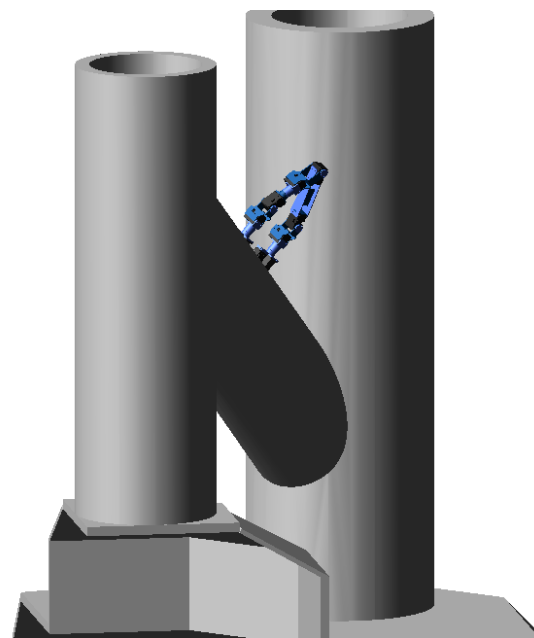
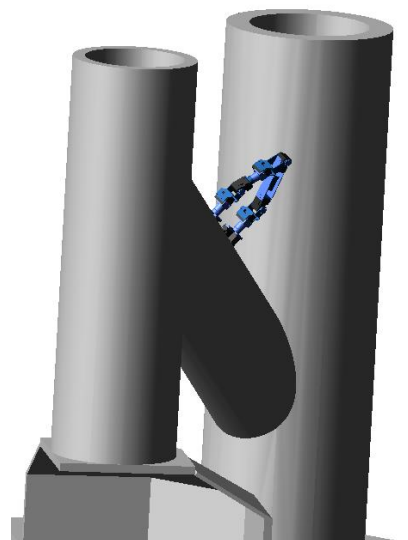
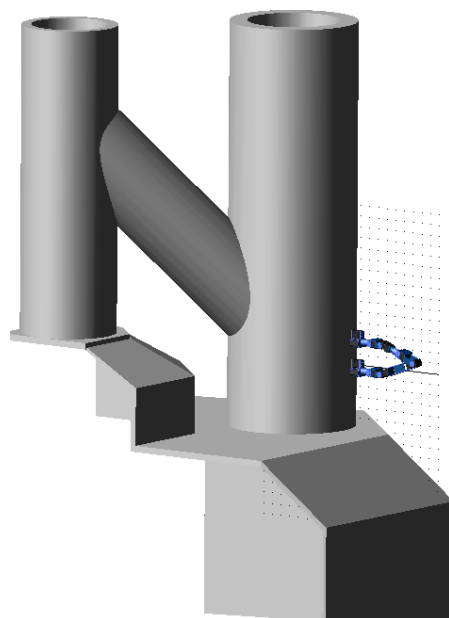
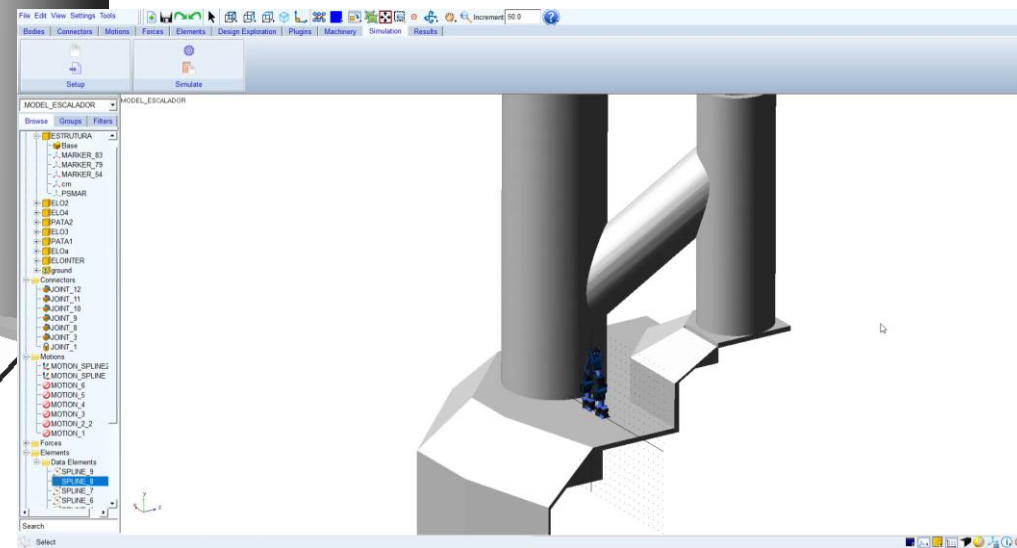
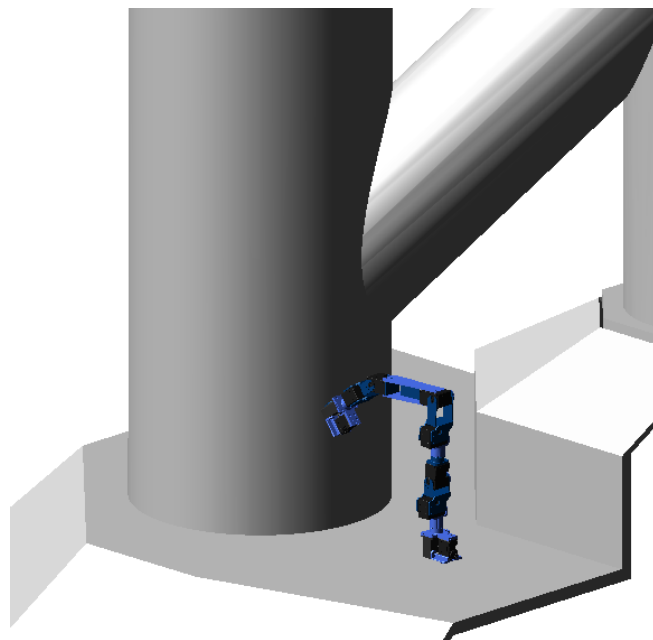
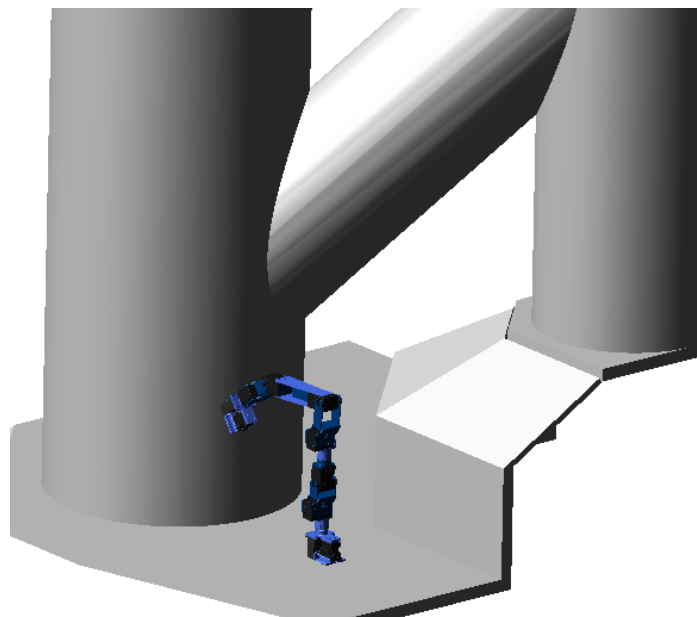
Append row to X and Y data
Prepend row to X and Y data

Insert Row After
Remove Row

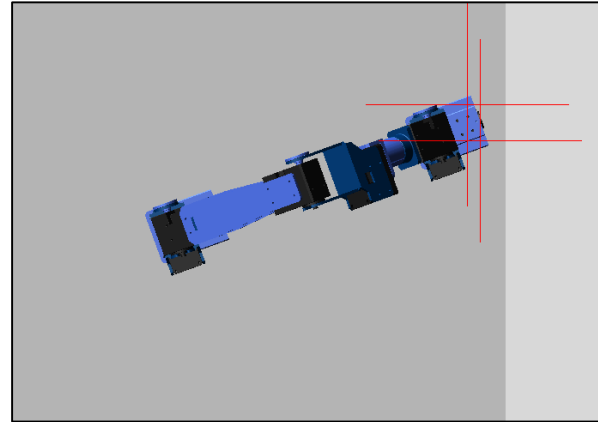
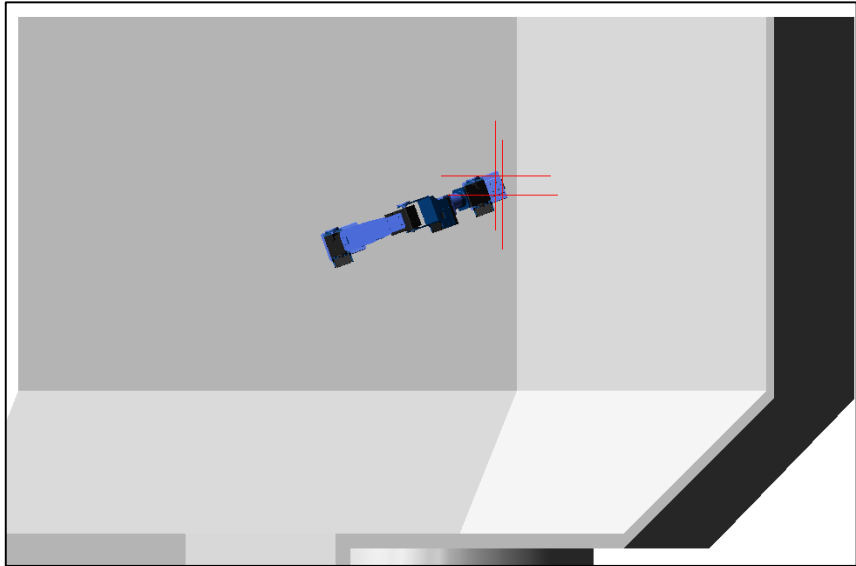
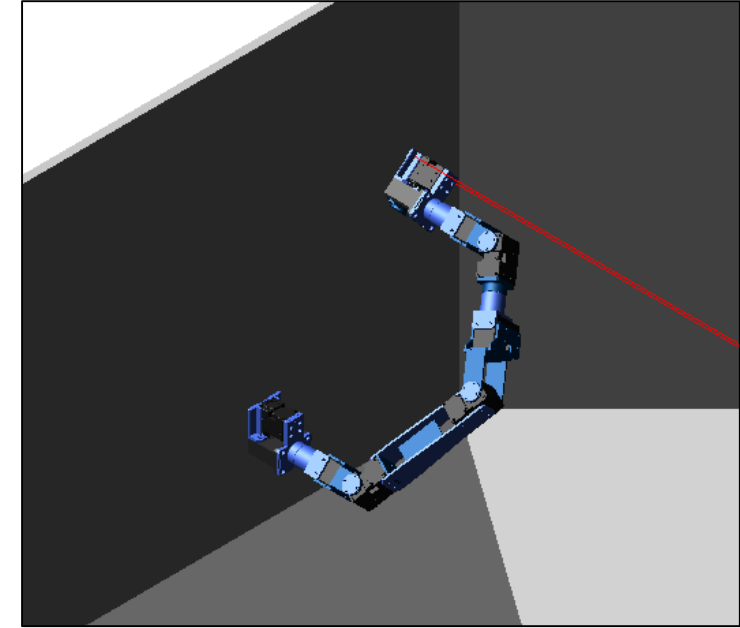
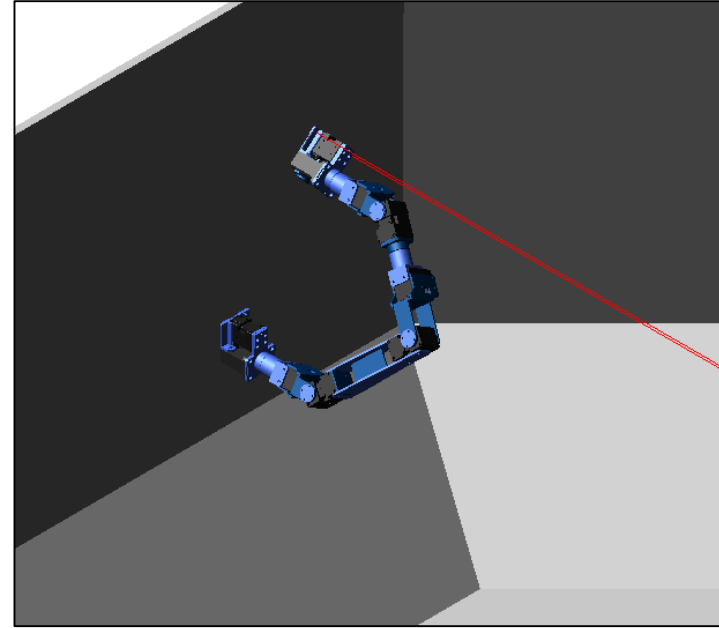
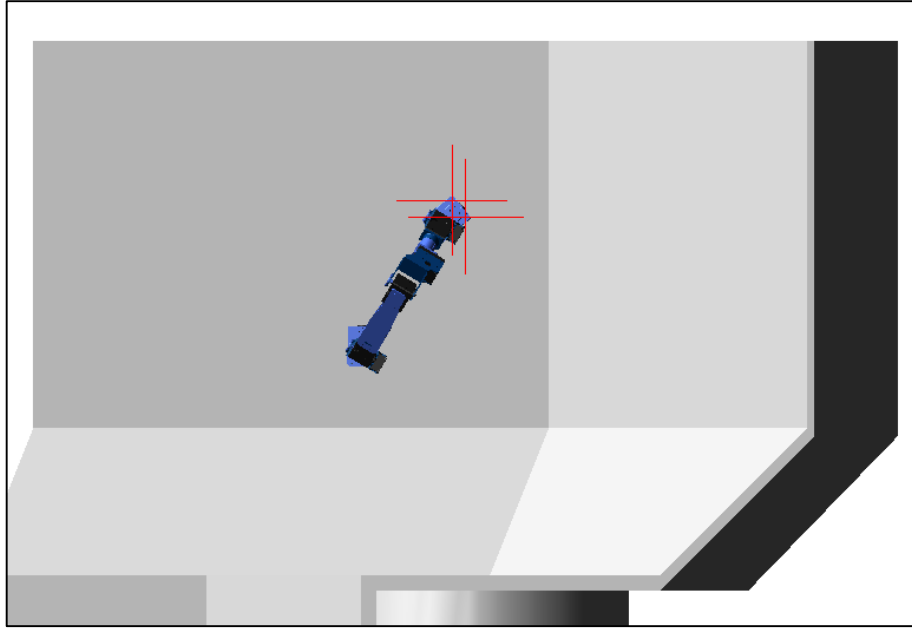
OK Apply Cancel

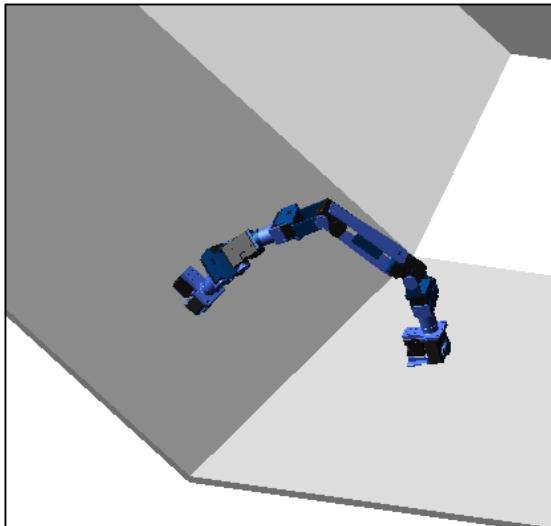
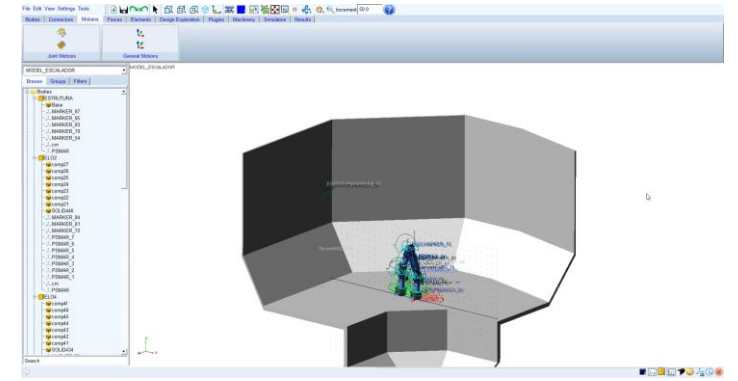
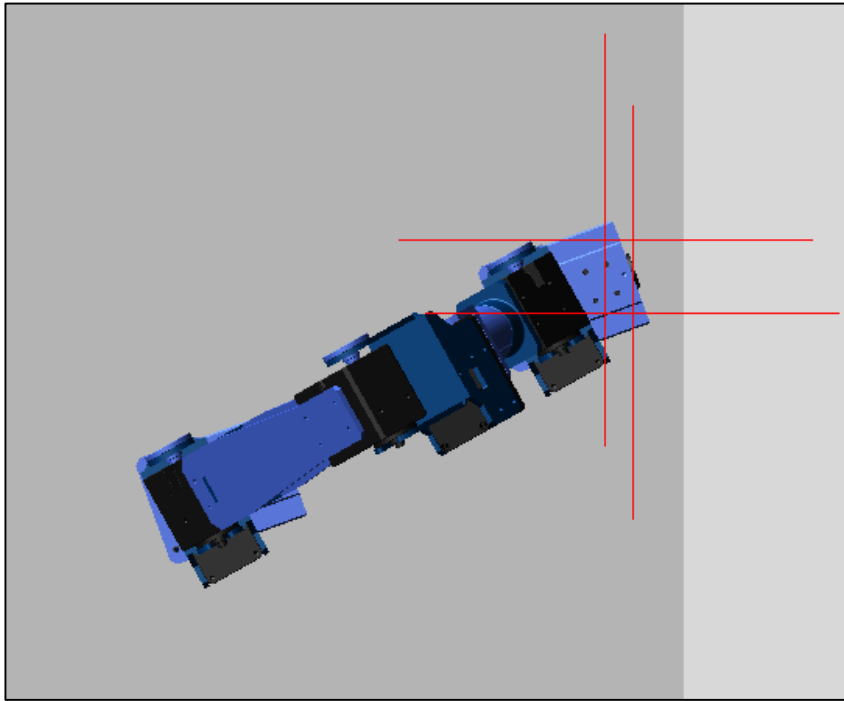
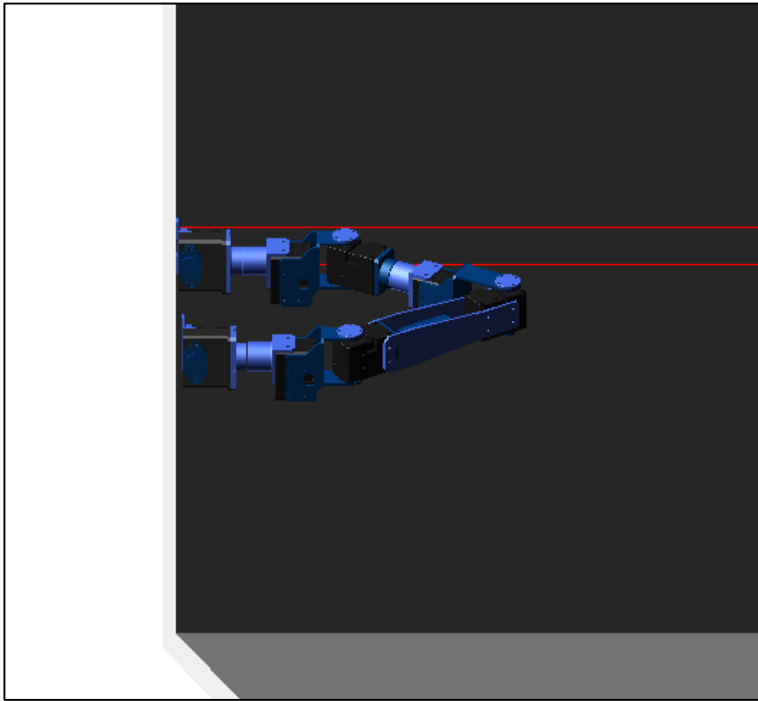
$\text{STEP}(\text{time}, 2, -20d, 8, -40d) + \text{STEP}(\text{time}, 12, -15d, 14, -50d)$





Alteração do plano – Cases que mostram a contribuição do nosso robô:








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Inchworm - ADAMS Simulation

Arquivos de simulação do conceito do inchworm com 6DOFs - CLAWAR 2024



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