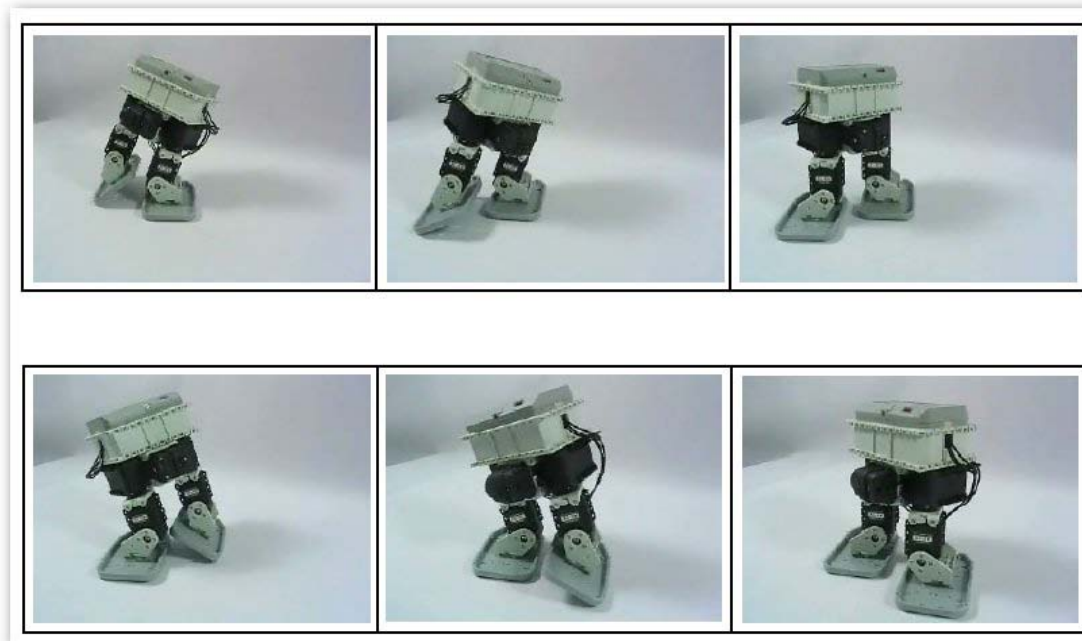


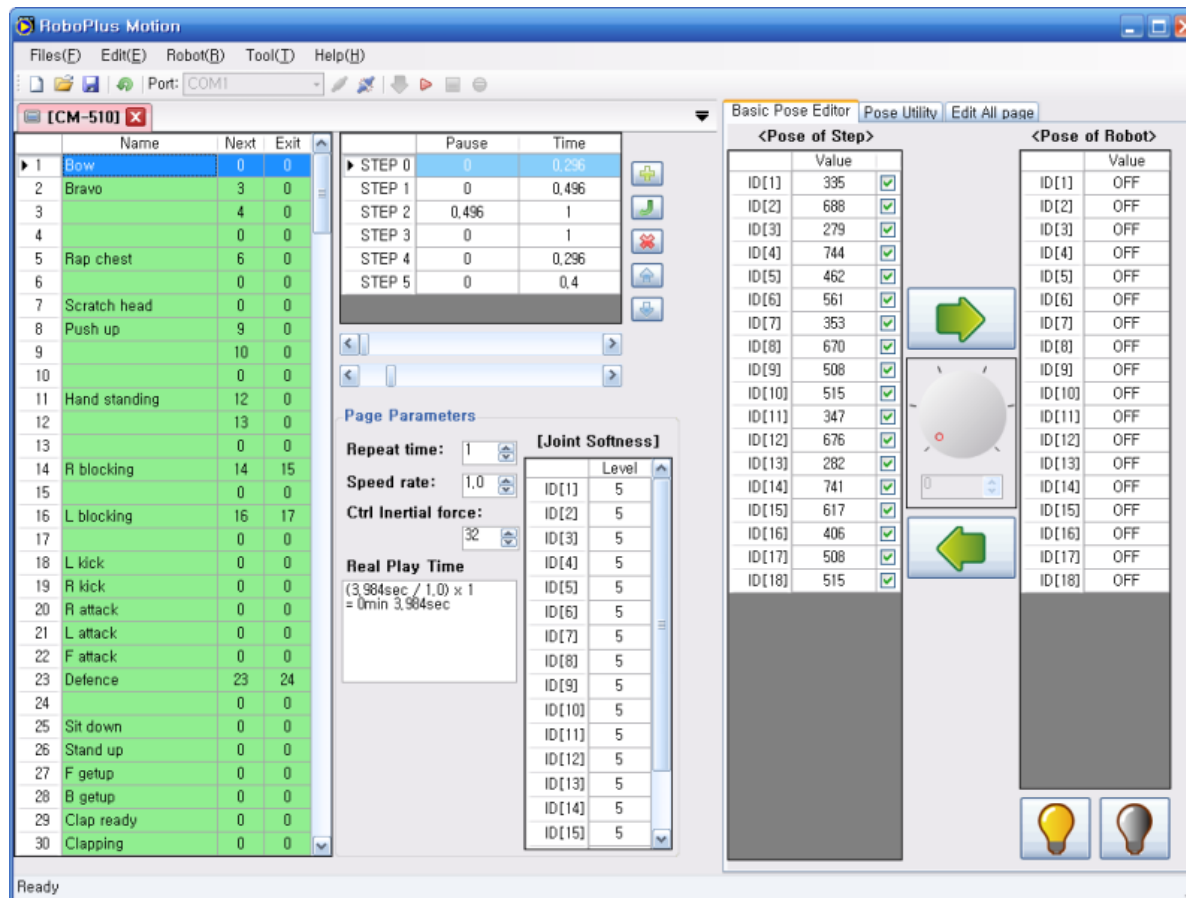
Secuencia de Movimientos

- Movimiento: Son un conjunto de acciones que se le asignan al robot.



Secuencia de Movimientos

- Editor de Movimientos



The screenshot displays the RoboPlus Motion software interface. The main window is titled "RoboPlus Motion" and shows a sequence of movements in a table. The table has columns for Name, Next, and Exit. The sequence includes movements like Bow, Bravo, Rap chest, Scratch head, Push up, Hand standing, R blocking, L blocking, L kick, R kick, R attack, L attack, F attack, Defence, Sit down, Stand up, F getup, B getup, Clap ready, and Clapping.

Name	Next	Exit
1 Bow	0	0
2 Bravo	3	0
3	4	0
4	0	0
5 Rap chest	6	0
6	0	0
7 Scratch head	0	0
8 Push up	9	0
9	10	0
10	0	0
11 Hand standing	12	0
12	13	0
13	0	0
14 R blocking	14	15
15	0	0
16 L blocking	16	17
17	0	0
18 L kick	0	0
19 R kick	0	0
20 R attack	0	0
21 L attack	0	0
22 F attack	0	0
23 Defence	23	24
24	0	0
25 Sit down	0	0
26 Stand up	0	0
27 F getup	0	0
28 B getup	0	0
29 Clap ready	0	0
30 Clapping	0	0

The interface also shows a "Page Parameters" section with fields for Repeat time, Speed rate, and Ctrl Inertial force. A "Real Play Time" section shows a calculation: $(3.984\text{sec} / 1.0) \times 1 = 0\text{min } 3.984\text{sec}$. A "Joint Softness" table is also visible, listing joint IDs and their softness levels.

ID	Level
ID[1]	5
ID[2]	5
ID[3]	5
ID[4]	5
ID[5]	5
ID[6]	5
ID[7]	5
ID[8]	5
ID[9]	5
ID[10]	5
ID[11]	5
ID[12]	5
ID[13]	5
ID[14]	5
ID[15]	5

The right side of the interface features a "Basic Pose Editor" with two tables: "<Pose of Step>" and "<Pose of Robot>". The "<Pose of Step>" table lists joint IDs and their values, with checkboxes for each. The "<Pose of Robot>" table lists joint IDs and their values, with checkboxes for each. A central control panel includes a play button, a stop button, and a lightbulb icon.

Enlaces a Proyectos en la red



ARMATRON

MANTENERSE EN PIE

PINZA

TRANSFORMER

EQUILIBRIO SOBRE SUPERFICIE

Dispositivos adicionales



Mando Inalámbrico



Transmisor



Cámara Inalámbrica

Proyectos propuestos

- **Micro-controlador PIC32.**
- **Cinemática Inversa del humanoide.**
- **Mejoras estructurales.**
- **Grados de libertad adicionales.**
- **Manipulación.**

Conclusiones

Bioloid es un robot:

- Muy versátil y expandible.
- Fácil de programar.
- Robusto.

La asociación de robótica:

- Propone muchos proyectos y está abierta a escuchar tus ideas.
- Ofrece apoyo y ayuda con los proyectos.

Sesión de preguntas

