

Exercise three: MiiA First steps

Aim:

One of the first things we would want to do is getting MiiA walking. This exercise will help you make MiiA take those first steps.

Hint: the step consists of 3 stages (Think of the way you walk, what are those stages). Important questions to ask are: How will you take 2 steps? How will you take many steps?

Walk

Forward – step with left leg

		Motor A	Motor B	Motor C	Motor D
Step one	Angle				
Step two	Angle				
Step three	Angle				
Notes					

Forward – step with Right leg

		Motor A	Motor B	Motor C	Motor D
Step one	Angle				
Step two	Angle				
Step three	Angle				
Notes					

Forward – Combine for two steps

		Motor A	Motor B	Motor C	Motor D
Step one	Angle				
Step two	Angle				
Step three	Angle				
Step four	Angle				
Step five	Angle				
Step six	Angle				
Notes					

Hint: two steps can be looped for as many steps as you want

At this point you should have gotten MiiA to walk forward. Great job!

Now to extend this to make MiiA walk back. This shouldn't take too long. It's the same thing, but different

Walk Back

Back – step with left leg

		Motor A	Motor B	Motor C	Motor D
Step one	Angle				
Step two	Angle				
Step three	Angle				
Notes					

Back – step with Right leg

		Motor A	Motor B	Motor C	Motor D
Step one	Angle				
Step two	Angle				
Step three	Angle				
Notes					

Back– Combine for two steps

		Motor A	Motor B	Motor C	Motor D
Step one	Angle				
Step two	Angle				
Step three	Angle				
Step four	Angle				
Step five	Angle				
Step six	Angle				
Notes					