



4th Industrial Revolution Bootcamp
15/02/2022 - 19/02/2022
Durban (South Africa)

Day	Start	End	Description	Venue	Facilitator
15/02/2022	09:00	10:00	Introduction and Tour of iLeadlab		
	10:00	10:30	Creative Exercise - 30 Circles		
	10:30	10:45	Tea Break		
	10:45	12:15	The 4th Industrial Revolution		
	12:15	13:00	Laser Cutting Fundamentals		
			<i>Safety</i>		
			<i>Operations</i>		
	13:00	13:30	Lunch		
	13:30	15:30	Introduction to Inkscape		
			<i>Features and Tools</i>		
16/02/2022			<i>Creating Vector Files</i>		
			<i>Pixels to Path - Convert a picture into a laser cut object</i>		
	09:00	10:30	Creating a small product - Part 1		
			<i>Designing a keyring</i>		
	10:30	10:45	Tea Break		
	10:45	11:45	Creating a small product - Part 2		
			<i>Manufacturing</i>		
			<i>Assembly</i>		
	11:45	13:00	Custom Box Generation for Laser Cutting - Part 1		
			<i>Boxes.pi</i>		
17/02/2022	13:00	13:30	Lunch		
	13:30	15:30	Custom Box Generation for Laser Cutting - Part 2		
			<i>Design</i>		
			<i>Manufacturing</i>		
			<i>Assembly</i>		
	09:00	10:30	Introduction to 3D Printing		
			<i>Background</i>		
			<i>Hardware and Software</i>		
			<i>Real world applications</i>		
	10:30	10:45	Tea Break		
18/02/2022	10:45	13:00	Introduction to SketchUp		
	13:00	13:30	Lunch		
	13:30	15:30	3D Printing a Product		
			<i>Design</i>		
			<i>Slicing using CURA</i>		
			<i>Manufacturing</i>		
	09:00	10:30	Introduction to Arduino		
			<i>Introduction to Microcontrollers</i>		
			<i>Hardware and Software</i>		
			<i>Real world applications</i>		
19/02/2022	10:30	10:45	Tea Break		
	10:45	13:00	Practical Circuit Building using Arduino - Part 1		
			<i>Theory of Circuits</i>		
			<i>Building a basic circuit</i>		
			<i>LED project</i>		
	13:00	13:30	Lunch		
	13:30	15:30	Practical Circuit Building using Arduino - Part 2		
			<i>Project TBC</i>		
	09:00	10:30	Introduction to Social Media		
	10:30	10:45	Tea Break		
19/02/2022	10:45	13:00	Using CANVA as a design tool		
	13:00	13:30	Lunch		
	13:30	15:30	Using Online tools to market custom products		

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