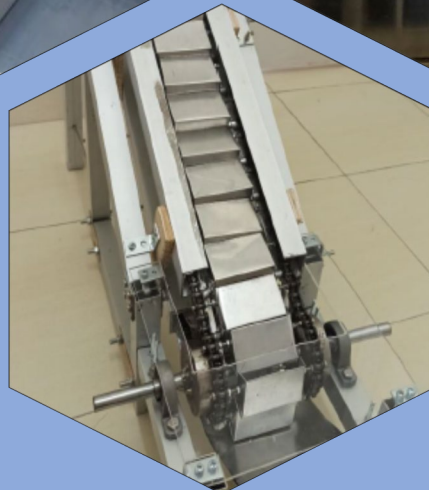
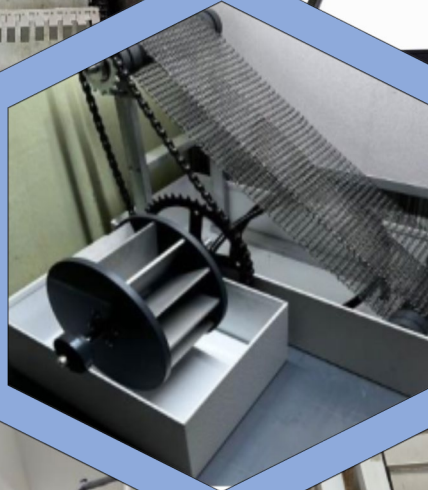


PROTOTYPE DESIGN COLLECTION

SERIES 1



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CHAPTER 94

Design and Fabrication of Automatic Fishing Rod Snatcher

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PROJECT DESCRIPTION

This project illustrates the design and fabrication of an existing automatic fishing rod holder. This project is designed to help people who fish frequently as a hobby. Fishing for prolonged hours often presents a few problems; due to the inability to continue keeping an eye on the bait, the consumer risks getting caught off guard, and losing catch. Other than that, the consumer will sometimes not realise if a fish has eaten the bait. In this project, this product will help them to dissolve those issues. The typical automatic fishing rods sold in the market are likely fishing rod holders that contain a spring to pull up the fishing rod if the fish ate the bait. The improvement for this project is the fishing rod snatchers not only pull up the fishing rod but at the same time have LED lights for alerting the user if there are motions on their fishing rod. The material for this product is stainless steel due to its durable and high tensile strength. A spring mechanism was used to pull up the force from the fish. It is concluded that using an automated fishing rod snatcher helps the user to reduce the losing fish and realise the movement of the bait due to spring and LED mechanism.

Keywords: *Fishing rod snatcher*

PROTOTYPE



DESIGN PARAMETER

FAKULTI KEJURUTERAAN MEKANIKAL (FKM) UNIVERSITI TEKNOLOGI MARA (UiTM) JOHOR KAMPUS PASIR GUDANG				
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Approved MADAM NUR KAMARLIJAH KAMARDIN	Checked MADAM NUR KAMARLIJAH KAMARDIN	Drawn MUHAMMAD HAKIM BIN KASDI 25/02/2022		
Drawing Title		ASSEMBLY OF AUTOMATIC FISHING ROD SNATCHER		
Part Name		-		
Part No.		-		
Rev. 0	Scale 1:2	Projection ⊕	Weight 1.0kg	Sheet 1/2

BILL OF MATERIALS (BOM)			
Part No.	Part Name	Description	Qty.
1	Leg	240mm x 70mm x 3mm	1
2	Body	120mm x 30mm x 3mm	1
3	Holder	140mm x 17.50mm x 3mm	1
4	Mechanism	40mm x 8.24mm x 3mm	1
5	Trigger Mechanism	50mm x 9mm x 3mm	1
6	Trigger	30mm x 16mm x 3mm	1
7	Spring	58mm x 12mm	1
8	Hexagon Hex Socket Cap Head Half Tooth	20mm x 4mm	7
9	LED	32mm x 14mm x 10mm	1
FAKULTI KEJURUTERAAN MEKANIKAL (FKM) UNIVERSITI TEKNOLOGI MARA (UiTM) JOHOR KAMPUS PASIR GUDANG			
Course Name		MEC299 - FINAL YEAR PROJECT 1 SESSION; MARCH 2021 - AUGUST 2021	
Group		J4EM1105K	
Approved MADAM NUR KAMARLIJAH KAMARDIN	Checked MADAM NUR KAMARLIJAH KAMARDIN	Drawn MUHAMMAD HAKIM BIN KASDI 25/02/2022	
Drawing Title		EXPLODED ASSEMBLY OF AUTOMATIC FISHING ROD SNATCHER	
Part Name		-	
Part No.		-	
Rev. 0	Scale 1:3	Projection ⊕	Weight 1.0kg
			Sheet 2/2