



**Cyprus International University**

Faculty of engineering  
Department of Software Engineering  
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## **Masked Face Recognition System (MFR) Activity Cost Estimate**

**Project Supervisor**  
Assist. Prof. Dr. Parvaneh ESMAILI

**Author**  
Ahmad Jawabreh & Zaid Mohtaseb

V1

## Table of Contents

1.0 STATEMENT OF PURPOSE .....	3
2.0 CRITICAL ASSUMPTIONS AND CONSTRAINTS .....	3
3.0 COST ESTIMATE .....	4

## 1.0 Statement of Purpose

The purpose of this document is to provide an estimate of how much it would cost to complete each activity in the work breakdown structure of MFR project. This document contains (a) a list of the activities in the work breakdown structure (WBS) with the activity number in the WBS, (b) the different types of resources needed, (c) the resource units needed or the number of hours worked for each activity, (d) the cost of the resource per unit or hour, (e) the cost of each resource for each activity, (f) the total number of resource units needed or the number of hours worked, (g) the total costs for the different resources, (h) the total costs for completing each activity, (i) any reserves allowed, (j) a total cost for completing the project, and (k) any assumptions made.

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## 2.0 Critical Assumptions and Constraints

1- Because of the war in Europe and the problems of the supply chain from China and many countries of the world, the prices of silicon chips have been rising for more than a year, we assumed that the prices would remain the same until we order them.

2- The dealer of the hardware parts is buying the parts from China with US dollar any they are selling it with Turkish lira, so if the exchange rate changed the price also will be changed, so we assumed the exchange rate will stay on 1USD = 14.75TL.

3- We assumed that we will not pay for any external services such as a programmers or electronic and electrical engineer, which the cost estimation table contains only the hardware parts.

### 3.0 Cost Estimate

<u>WBS Item Number</u>	<u>WBS Item</u>	<u>Resource Type</u> <u>1</u>			<u>Total</u>
1.	Hardware Parts	32/1	-	-	1885 TL
1.1.	RFID parts	3/1	-	-	1136 TL
1.1.1.	RFID	1/1	31 TL/1H	31TL	31 TL
1.1.2.	LED's	2/1	3.5 TL/1H	3.5 TL	7 TL
1.1.3.	Alphanumeric LCD	1/1	219 TL/1H	219 TL	219 TL
1.2.	Masked face recognition parts	2/1	-	-	376.5 TL
1.2.1	Camera	1/1	157.5 TL/1H	157.5 TL	157.5 TL
1.2.2	LCD screen	1/1	219 TL/1H	219 TL	219 TL
1.3.	Sensors part's	4/1	-	-	137.9 TL
1.3.1	Distance sensor	1/1	31.5 TL/1H	31.5 TL	31.5 TL
1.3.2	Gas sensor	1/1	28.4 TL/1H	28.4 TL	28.4 TL
1.3.3	Flame sensor	1/1	35 TL/1H	35 TL	35 TL
1.3.4	Speaker	1/1	43 TL/1H	43 TL	43 TL
1.4.	Network parts	1/1	-	-	107.5 TL
1.4.1	Ethernet port	1/1	107.5 TL/1H	107.5 TL	107.5 TL
1.5.	Power and electricity parts	2/1	-	-	43.47 TL
1.5.1	Battery	1/1	9.45 TL/1H	9.45 TL	9.45 TL
1.5.2	Power Cable	1/1	34.2 TL/1H	34.2 TL	34.2 TL
2.	Coding	0	0	0	0
3.	Database creation	0	0	0	0
4.	Smart contract development	0	0	0	0
5.	Testing	0	0	0	0