

**LABOR, COST & SCHEDULE DOCUMENT**  
**HEXIMED**

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*The rising STAR of Texas*

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# 1 Introduction & Summary

The HexiMed system is an IoT connected medication reminder that notifies a patient when to take medications by integrating a set of sensors using various communication systems. The system seeks to improve medication adherence by establishing an organized medication schedule, along with a medication log stored onto an SD card which can be accessed by a physician, caregiver, or patient.

This project will be completed by December 07, 2018 with a total estimated labor cost of \$114,660, total material required cost of \$295 and a total estimated project cost of \$114,955.

## 2 Labor

### 2.1 Labor Categories

Project Labor Categories	
Labor Category	Justification
Design Engineer	All members will contribute to designing
Test Engineer	All members will test certain parts of design
Technical Writer	All members will contribute to writing technical documents
Technician	No technician needed for demo project
Fabricator / Assembler	No major assembly required
Drafting / CAD	No drafting/CAD required
Marketing Analyst	Need to understand consumers and competition
Administrative	No administration needed
Management / Supervision	PM will be management
Consulting	To account for help from Dr. Kemp and Dr. Aslan
Contractor	No contractual work

## 2.2 Labor Rates

Labor Categories and Burdened Hourly Costs		
Labor Category	Burdened Hourly Cost	Justification
Design Engineer	\$84/h	Average pay for job in Austin assuming 50% burden
Test Engineer	\$72/h	Average pay for job in Austin assuming 50% burden
Technical Writer	\$48/h	Average pay for job in Austin assuming 50% burden
Technician	--	This will not be required in the scale of this project
Fabricator	--	This will not be required in the scale of this project
Drafting / CAD	--	This will not be required in the scale of this project
Marketing Analyst	\$60/h	Average pay for job in Austin assuming 50% burden
Administrative	--	This will not be required in the scale of this project
Management / Supervision	\$117/h	Average pay for job in Austin assuming 50% burden
Consulting	\$96/h	Average pay for job in Austin assuming 50% burden
Contractor	--	This will not be required in the scale of this project

## 2.3 Total Cost of Labor

LABOR ESTIMATE								
	Design Engr	Test Engr	Tech Writer	Analyst	Mgmt	Consulting	Contractor	
Burdened Hourly Rate	\$84	\$72	\$48	\$60	\$117	\$96	\$100	
Task	Hours Required							TOTAL
Project definition	20		33.33	30	21.67	5	5	
Functional Spec	100		33.33		21.67	5	5	
Simulation		35	33.33		21.67	5	5	
Test Plan	40	60	33.33		21.67	5	5	
Prototype Assembly		5	33.33		21.67	5	5	
Characterization	50		33.33		21.67	5	5	
Total Hours	210	100	200	30	130	30	30	
Total Burdened Cost	\$35280	\$14400	\$19200	\$3600	\$30420	\$5760	\$6000	\$114,660

## 3 Materials

### 3.1 Capital Expenses

Capital expenses are not a part of the HexiMed labor cost due to it being a software-based project.

### 3.2 Non-Capital Expenses

NON-CAPITAL EXPENDITURE ESTIMATE		
Task	Materials	Cost
Fabricate prototype	Hexiwear Power User Packs	\$198
	32x32 RGB LED Matrix Panel	\$39
	(5) NFC Tags	\$10
	Buzz 2 Click	\$12
	Matrix RGB Click	\$24
	NFC Click	\$12
<b>TOTAL</b>		<b>\$295</b>

## 4 Total Project Cost

PROJECT LABOR & MATERIALS COST SUMMARY	
Cost Category	Estimated Cost
Labor	\$114,660
Capital Expenses	-
Non-Capital Expenses	\$295
<b>TOTAL ESTIMATED PROJECT COST</b>	<b>\$114,955</b>

## 5 Project Schedule

See attached Gantt Chart.

## 6 Approvals

Approver Name	Title	Signature	Date
	Project Manager		
	D2 Project Manager		